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Medical College

1969-70

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Cornell University

Medical College

1969-70

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The courses and curricula described in this *Announcement*, and the teaching personnel listed therein, are subject to change at any time by official action of Cornell University.

1969							1970														
July							January							July							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
		1	2	3	4	5						1	2	3				1	2	3	4
6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11	
13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18	
20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25	
27	28	29	30	31			25	26	27	28	29	30	31	26	27	28	29	30	31		
August							February							August							
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3	4	5	6	7	8	9	8	9	10	11	12	13	14	2	3	4	5	6	7	8	
10	11	12	13	14	15	16	15	16	17	18	19	20	21	9	10	11	12	13	14	15	
17	18	19	20	21	22	23	22	23	24	25	26	27	28	16	17	18	19	20	21	22	
24	25	26	27	28	29	30	29	30	31					23	24	25	26	27	28	29	
31														30	31						
September							March							September							
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7	8	9	10	11	12	13	8	9	10	11	12	13	14	6	7	8	9	10	11	12	
14	15	16	17	18	19	20	15	16	17	18	19	20	21	13	14	15	16	17	18	19	
21	22	23	24	25	26	27	22	23	24	25	26	27	28	20	21	22	23	24	25	26	
28	29	30					29	30	31					27	28	29	30				
October							April							October							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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5	6	7	8	9	10	11	5	6	7	8	9	10	11	4	5	6	7	8	9	10	
12	13	14	15	16	17	18	12	13	14	15	16	17	18	11	12	13	14	15	16	17	
19	20	21	22	23	24	25	19	20	21	22	23	24	25	18	19	20	21	22	23	24	
26	27	28	29	30	31		26	27	28	29	30			25	26	27	28	29	30	31	
November							May							November							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21	
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14	15	16	17	18	19	20	14	15	16	17	18	19	20	13	14	15	16	17	18	19	
21	22	23	24	25	26	27	21	22	23	24	25	26	27	20	21	22	23	24	25	26	
28	29	30	31				28	29	30					27	28	29	30	31			

Calendar, 1969-70

FIRST AND SECOND YEARS

1969

Sept. 5 and 8	Registration
Sept. 8	Opening exercises, 3:30 P.M.
Sept. 9	Instruction begins, 9:00 A.M.
Nov. 20	Fall term ends, 5:00 P.M.
Nov. 22-26	Examinations
Nov. 27	Thanksgiving Day, holiday
Dec. 1	Beginning of winter term
Dec. 19	Instruction ends, 5:00 P.M.; Christmas recess begins
Dec. 25	Christmas Day, holiday

1970

Jan. 1	New Year's Day, holiday
Jan. 5	Christmas recess ends; instruction begins, 9:00 A.M.
Feb. 27	Winter terms ends, 5:00 P.M.
March 2-7	Examinations for second year
March 2-14	Examinations for first year
March 8-15	Spring recess for second year
March 16	Spring term begins
April 12-19	Spring recess for first year
May 29	Instructions ends for second year, 5:00 P.M.
May 30	Memorial Day, holiday
June 1-3	Examinations for second year
June 5	Instruction ends for first year, 5:00 P.M.
June 8 and 9	Examinations for first year

THIRD YEAR

1969

Sept. 2	Registration; instruction begins for third year
Oct. 27	First rotation of Section II, Divisions C, D, and E
Nov. 24	Rotation of Section I, Divisions A and B
Nov. 27	Thanksgiving Day, holiday
Dec. 20, 1:00 P.M.-Jan. 5, 8:00 A.M.	Christmas vacation

1970

Jan. 5	Second rotation of Section II, Divisions C, D, and E
Feb. 23	Midyear rotation of all divisions of Sections I and II
April 12-19	Spring vacation
April 20	First rotation of Section I, Divisions C, D, and E
May 18	Rotation of Section II, Divisions A and B
May 30	Memorial Day, holiday
June 8	Second rotation of Section I, Divisions C, D, and E
July 4	Independence Day, holiday
August 1	Instruction ends for third year

FOURTH YEAR

1969

Sept. 2	Registration
Dec. 20- Jan. 5	Christmas vacation

1970

May 28	Instruction ends
June 2	Commencement, 3:00 P.M.

Elective Modules

A	Sept. 2-Oct. 26	(eight weeks)
B	Oct. 27-Dec. 20	(eight weeks)
C	Jan. 5-Feb. 22	(seven weeks)
D	Feb. 23-April 12	(seven weeks)
E	April 13-May 28	(seven weeks)

Cornell University

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Center was formed by an agreement between The Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of four governors of The Society of the New York Hospital, four representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The President of The New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

E. Hugh Luckey, President

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John Hay Whitney

Walter B. Wriston

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$..... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

8 EXECUTIVE FACULTY

If for the Hospital, the language may be: "I give and bequeath to The Society of the New York Hospital, the sum of \$."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

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Neal R. Stamp, Secretary of the Corporation, and University Counsel

OFFICERS OF THE MEDICAL COLLEGE ADMINISTRATION

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Daniel S. Lukas
George E. Murphy
Ralph E. Peterson
Albert L. Rubin

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William N. Christenson
Roger L. Greif
Kenneth G. Johnson
Thomas Killip III
Bertrand New
Lawrence W. Hanlon, ex officio

FACULTY¹

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
LEONA BAUMGARTNER, M.D. [1935; 1968]	<i>Clinical Professor of Public Health;</i> <i>Clinical Professor of Pediatrics</i>
ALEXANDER BRUNSCHWIG, M.D. [1947; 1967]	<i>Clinical Professor of Surgery</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
ANTHONY C. CIPOLLARO, M.D. [1948; 1966]	<i>Clinical Professor of Medicine</i> <i>(Dermatology)</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
MARGARET DANN, M.D. [1938; 1967]	<i>Professor of Pediatrics</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and</i> <i>Gynecology</i>
VINCENT DU VIGNEAUD, Ph.D. [1938; 1967]	<i>Professor of Biochemistry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CLAUDE E. FORKNER, M.D. [1938; 1966]	<i>Clinical Professor of Medicine</i>
RICHARD H. FREYBERG, M.D. [1944; 1969]	<i>Clinical Professor of Medicine</i>
FRANK GLENN, M.D. [1932; 1968]	<i>Professor of Surgery</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor of Pharmacology</i>
PHYLLIS GREENACRE, M.D. [1932; 1962]	<i>Clinical Professor of Psychiatry</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics</i> <i>and Gynecology</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
JOSEPH C. HINSEY, Ph.D. [1936; 1967]	<i>Professor of Neuroanatomy</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MACFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
CHARLES M. McLANE, M.D. [1932; 1968]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics</i> <i>and Gynecology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
RALPH F. PHILLIPS, M.D. [1950; 1968]	<i>Clinical Professor of Radiology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</i>
ISRAEL STEINBERG, M.D. [1940; 1967]	<i>Clinical Professor of Radiology</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine</i> <i>(Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
JOHN Y. SUGG, M.D. [1932; 1969]	<i>Professor of Microbiology</i>
T. CAMPBELL THOMPSON, M.D. [1951; 1968]	<i>Clinical Professor of Surgery</i> <i>(Orthopedics)</i>

1. The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.



- EDWARD TOLSTOI, M.D. [1927; 1962] *Clinical Professor of Medicine*
 PRESTON A. WADE, M.D. [1927; 1968] *Clinical Professor of Surgery*
 JAMES H. WALL, M.D. [1933; 1965] *Clinical Professor of Psychiatry*
 BRUCE P. WEBSTER, M.D.C.M. [1932; 1967] *Clinical Professor of Medicine*
 MAY G. WILSON, M.D. [1918; 1959] *Clinical Professor of Pediatrics*
 IRVING S. WRIGHT, M.D. [1946; 1967] *Clinical Professor of Medicine*

PROFESSORS

- BENJAMIN ALEXANDER, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]
 JOSEPH F. ARTUSIO, JR., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
 WILLIAM A. BARNES, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1967]
 GORAN C. H. BAUER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute. [1963]
 ALEXANDER G. BEARN, *Professor of Medicine (Chairman)*. Physician-in-chief, New York Hospital. M.B.B.S. 1946, M.D. 1951, University of London. [1966]
 EDWARD J. BEATTIE, JR., *Professor of Surgery (Chairman)*. Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966; 1967]
 E. LOVELL BECKER, *Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1969]
 JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
 JOHN J. BURNS, *Visiting Professor of Pharmacology*. B.S. 1942, Queens; M.A. 1948, Ph.D. 1950, Columbia. [1968]
 HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
 WILLIAM COOPER, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1966]
 GIULIO J. D'ANGIO, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia; M.D. 1945, Harvard. [1968]
 FARRINGTON DANIELS, JR., *Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962; 1969]
 PAUL F. DE GARA, *Clinical Professor of Pediatrics (Allergy)*. Attending Pediatrician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1967]
 JOHN E. DEITRICK, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
 THOMAS F. DILLON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown. [1952; 1969]
 JOHN W. DRAPER, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
 EDWARD A. DUNLAP, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1944; 1968]
 HENRY S. DUNNING, *Clinical Professor of Neurology*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, (Westchester Division). A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
 MURRAY DWORETZKY, *Clinical Professor of Medicine (Allergy)*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]

14 FACULTY

- JOHN EDWARDS, *Visiting Professor of Genetics in Pediatrics*. Investigator, New York Blood Center. B.A. 1949, M.B. B.Chir., Cambridge; M.R.C.P. 1956, London. [1968]
- JOHN T. ELLIS, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern, [1948; 1968]
- MARY ALLEN ENGLE, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1969]
- RALPH L. ENGLE, JR., *Professor of Medicine*. Attending Physician; Director, Division of Medial Systems and Computer Science, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1969]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1938, Maryland. [1941; 1965]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- SANFORD GOLDSTONE, *Professor of Psychology in Psychiatry*. B.S. 1947, C.C.N.Y.; Ph.D. 1953, Duke. [1967]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- MILTON HELPERN, *Visiting Professor of Pathology*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute; Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM S. HOWLAND, *Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954; 1968]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- DONALD G. JOHNSON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- WILLIAM H. KAMMERER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. B.S. 1931, M.D. 1935, Indiana. [1941; 1969]
- DAVID A. KARNOFSKY, *Professor of Medicine*. Attending Physician, Memorial Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1966]
- B. H. KEAN, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- AARON KELLNER, *Clinical Professor of Pathology*. Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva College; M.S. 1936, Columbia; M.D. 1939, University of Chicago. [1946; 1968]
- JOHN G. KIDD, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- THOMAS KILLIP III, *Roland Harriman Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1968]

- ELMER E. KRAMER, *Clinical Professor of Obstetrics and Gynecology; Clinical Professor of Pathology*. Attending Obstetrician and Gynecologist; Attending Pathologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- MILTON I. LEVINE, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1967]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Barklie McKee Henry Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. WALTON LILLEHEI, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, University of Minnesota. [1967]
- E. HUGH LUCKEY, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- JOHN MACLEOD, *Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1969]
- BENJAMIN E. MARBURY, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1968]
- PHILIP D. MARSDEN, *Visiting Professor of Public Health*. M.B.B.S. 1956, University College Hospital; M.D. 1965, London School of Hygiene and Tropical Medicine. [1967]
- VICTOR F. MARSHALL, *Professor of Surgery (Urology)*. Attending Surgeon In Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. McCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- FLETCHER H. McDOWELL, *Professor of Neurology*. Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944; Dartmouth; M.D. 1947, Cornell. [1950; 1968]
- ALTON MEISTER, *Israel Rogosin Professor of Biochemistry (Chairman)*. S.B. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- WALTER MODELL, *Professor of Pharmacology*. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1967]
- JAMES A. MOORE, *Professor of Otorhinolaryngology (Acting Chairman)*. Attending Surgeon in Charge of Otorhinolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- GEORGE E. MURPHY, *Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1968]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- W. P. LAIRD MYERS, *Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1968]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
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- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
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- AARON S. POSNER, *Professor of Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963; 1969]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- SIDNEY ROTHBARD, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951; 1969]
- ALBERT L. RUBIN, *Professor of Biochemistry (Surgery); Professor of Surgery (Biochemistry)*. Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1969]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- WILLIAM N. SCHOENFELD, *Clinical Professor of Psychology in Psychiatry*. B.S. 1937, C.C.N.Y.; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- DONALD M. SHAFER, *Clinical Professor of Ophthalmology (Acting Chairman)*. Attending Ophthalmologist, New York Hospital. B.A. 1932, Columbia; M.D. 1936, Cornell. [1958; 1969]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- RICHARD M. SILBERSTEIN, *Visiting Professor of Psychiatry*. A.B. 1944, Dartmouth; M.D. 1946, Pittsburgh. [1968]
- J. JAMES SMITH, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1967]
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- ROY C. SWAN, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- BJORN THORBJARNARSON, *Clinical Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1968]
- DOUGLAS P. TORRE, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- ALAN VAN POZNAK, *Clinical Professor of Anesthesiology; Assistant Professor of Pharmacology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1968]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- WILLET F. WHITMORE, JR., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, New York Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]
- OTTO A. WILL, JR., *Clinical Professor of Psychiatry*. B.A. 1933, M.D. 1940, Stanford. [1968]
- PHILIP D. WILSON, JR., *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1968]
- ERICH H. WINDHAGER, *Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1969]

ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- AMIR ASKARI, *Associate Professor of Pharmacology*. B.S. 1953, University of Duquesne; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- SAM C. ATKINSON, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- PETER A. MCF. AULD, *Associate Professor of Pediatrics*. Associate Attending Physician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1966]
- LLOYD T. BARNES, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938; Pennsylvania. [1953; 1969]
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- CHARLES H. BAUER, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- CARL BELING, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute, Stockholm. [1965; 1969]
- DOROTHEA BENNETT, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- NORMAN BRACHFELD, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1959; 1968]
- WILLIAM A. BRISCOE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1939, New College, Oxford, England; M.A. 1941, B.M., B.Ch. 1942, D.M. 1951, Oxford University. [1969]
- DANA C. BROOKS, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]
- J. ROBERT BUCHANAN, *Acting Dean; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1967]
- MYRON I. BUCHMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- WILLIAM G. CAHAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- ROLLA D. CAMPBELL, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]

18 FACULTY

- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- AARON D. CHAVES, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- FLORENCE CHIEN HWA-CHU, *Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956; 1969]
- WILLIAM N. CHRISTENSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- BAYARD D. CLARKSON, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1968]
- HARTWIG CLEVE, *Associate Professor of Medicine*. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Gottingen. [1968]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]
- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- JAMES L. CURTIS, *Assistant Dean; Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Albion; M.D. 1946, University of Michigan. [1969]
- BETTY S. DANES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- M. RENATE DISCHE, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1941, Immaculata College; Ph.D. 1953, M.D. 1957, Columbia. [1969]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- WILLIAM J. EISENMENGER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- BORJE E. EJRP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute, Stockholm. [1961; 1964]

- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- BERNARD FISHER, *Clinical Associate Professor of Psychology in Psychiatry*. Associate Attending Psychologist, New York Hospital. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, N.Y.U. [1965; 1969]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peters; M.D. 1951, Cornell. [1954; 1962]
- RICHARD J. FLEMING, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1952, Boston College; M.D. 1956, Tufts. [1966; 1969]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- WALTER FREEDMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, DePauw; M.D. 1954, Cornell. [1960; 1969]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- ALVIN H. FREIMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- HORTENSE M. GANDY, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1968]
- HENRY GANS, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1955, University of Nymegen, Holland; Ph.D. 1964, Minnesota. [1968]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- JAMES L. GERMAN III, *Clinical Associate Professor of Anatomy; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- MICHAEL D. GERSHON, *Associate Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1969]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- MARTIN J. GLYNN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1968]
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- DAN M. GORDON, *Clinical Associate Professor of Ophthalmology*. Associate Attending Ophthalmologist, New York Hospital. B.S. 1929, M.D., 1932, Michigan. [1944; 1948]
- MARY E. W. GOSS, *Associate Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, State University of Iowa; Ph.D. 1959, Columbia. [1959; 1968]
- EUGENE L. GOTTFRIED, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Columbia. [1969]
- DICRAN GOULIAN, JR., *Clinical Associate Professor of Surgery (Plastic Surgery)*, Associate Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1968]
- HARRY GRABSTALD, *Associate Professor of Surgery (Urology)*. Associate Attending Urologist, Memorial Hospital. B.S. 1944, Southern Methodist; M.D. 1945, Texas. [1959; 1968]
- BERNICE GRAFSTEIN, *Associate Professor of Physiology*. B.A. 1951, University of Toronto; Ph.D. 1954, McGill. [1969]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- HERMAN GROSSMAN, *Associate Professor of Pediatrics (Radiology)*; *Associate Professor of Radiology*. Associate Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964; 1968]
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- DONALD M. HAMILTON, *Clinical Associate Professor of Psychiatry*. Assistant Medical Director, New York Hospital (Westchester Division). A.B. 1929, Swarthmore; M.D. 1933, Pennsylvania. [1935; 1966]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- JAMES Q. HARALAMBIE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1968]
- LAWRENCE J. HATTERER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1968]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- LEONARD L. HEIMOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1934, University of Alabama; M.D. 1939, University of Maryland. [1946; 1968]
- HENRY O. HEINEMANN, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, University of Amsterdam. [1968]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine*; *Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- LAWRENCE B. HOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]

- JAMES M. HOLMAN, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1969]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- RAYMOND W. HOUDE, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- ALLAN E. INGLIS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1967]
- BERNARD JACOBS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1948, College of Physicians and Surgeons, London. [1961; 1967]
- MYRON S. JACOBS, *Clinical Associate Professor of Anatomy*. B.A. 1945, Pennsylvania; M.S. 1951, Ph.D. 1955, New York University. [1967; 1968]
- ABRAHAM JACOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1932, M.A. 1933, Columbia; M.D. 1940, New York University. [1955; 1967]
- NORMAN B. JAVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1947, Syracuse; Ph.D. 1951, North Carolina; M.D. 1954, Duke. [1968]
- KENNETH G. JOHNSON, *Associate Professor of Public Health*. B.S. 1944, Manhattan; M.D. 1950, State University of New York, New York City. [1967]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- DONALD KAYE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1966]
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- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- SEYMOUR G. KLEBANOFF, *Clinical Associate Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950; 1969]
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- ROBERT C. KNAPP, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949; Columbia; M.D. 1953, S.U.N.Y. (Brooklyn). [1958; 1969]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
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- AARON R. LEVIN, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.Sc. 1948, M.B. B.Ch. 1953, Witwatersrand; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1966; 1969]
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- MARTIN LIPKIN, *Associate Professor of Medicine*. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- EDWARD J. LORENZE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1946, New York University. [1953; 1967]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- DONALD W. R. MACKENZIE, *Associate Professor of Microbiology*. B.Sc. 1953, Ph.D. 1958, Edinburgh University, Scotland. [1967; 1969]
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- ABRAHAM MAZUR, *Clinical Associate Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1969]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- ROBERT W. McDEVITT, *Associate Professor of Pathology; Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, New York Hospital; Assistant Attending Pathologist, Memorial Hospital. A.B. 1952, Harvard; M.D. 1956, Yale. [1967]
- JOHN H. McGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- ROBERT G. McGOVERN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1968]
- PAUL R. McHUGH, *Associate Professor of Psychiatry; Associate Professor of Neurology*. Associate Attending Psychiatrist; Associate Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964; 1968]
- ALAN A. McLEAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1948, Long Island College of Medicine. [1954; 1968]
- THOMAS H. MEIKLE, JR., *Associate Professor of Anatomy; Associate Professor of Neuroanatomy in Psychiatry*. A.B. 1951, M.D. 1954, Cornell. [1961; 1966]
- THEODORE R. MILLER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1965]
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- ZUHEIR MUJAHED, *Clinical Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University Beirut School of Medicine. [1955; 1968]
- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- RALPH L. NACHMAN, *Associate Professor of Medicine*. Associate Attending Physician; Director, Division of Hematology, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1968]
- BERTRAND L. NEW, *Clinical Associate Professor of Psychiatry; Clinical Associate Professor of Psychiatry in Pediatrics*. Associate Attending Psychiatrist. Assistant Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966; 1967]
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- JAMES A. NICHOLAS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958; 1967]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- ARTHUR J. OKINAKA, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, University of Chicago. [1956; 1968]

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- RUSSEL H. PATTERSON, JR., *Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital. B.A. 1948., Stanford; M.D. 1952, Cornell. [1955; (Brooklyn). [1960; 1968]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]
- MELVILLE A. PLATT, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, University of Western Ontario. [1956; 1968]
- NATHAN POKER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn; M.D. 1950, Columbia. [1953; 1968]
- JOHN L. POOL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948; 1968]
- JEROME B. POSNER, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1967]
- DOUGLAS G. POTTS, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.Sc., Canterbury University College, New Zealand; M.B., Ch.B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967]
- ALFRED M. PRINCE, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1949, Yale; M.A. 1951, Columbia; M.D. 1955, Western Reserve. [1966]
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- LEON C. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery; Clinical Associate Professor of Pediatrics (Surgery)*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1967]
- DONALD J. REIS, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1953; M.D. 1956, Cornell. [1963; 1967]
- CHARLOTTE RESSLER, *Associate Professor of Biochemistry*. B.A. 1944, N.Y.U.; M.A. 1946, Ph.D. 1949, Columbia. [1949; 1968]
- JOHN C. RIBBLE, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1955, Texas. [1959; 1966]
- JACK RICHARD, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1956; 1969]
- EDGAR A. RILEY, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1969]
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- DAVID M. ROSEMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1947, M.D. 1951, Johns Hopkins. [1952; 1966]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- RICHARD A. RUSKIN, *Clinical Associate Professor of Obstetrics and Gynecology*.

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- SAMUEL F. RYAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O., Dublin University. [1957; 1968]
- LEE SALK, *Clinical Associate Professor of Psychology in Pediatrics*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, University of Michigan. [1966; 1968]
- CHARLES A. SANTOS-BUCH, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1953, Harvard; M.D. 1957, Cornell. [1958; 1968]
- BRIJ SAXENA, *Associate Professor of Biochemistry in Medicine*. Ph.D. 1954, University of Lucknow, India, Dr.rer.nat. 1957, University of Muenster, West Germany; Ph.D. 1961, Wisconsin. [1966]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
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- CYRIL SOLOMON, *Clinical Associate Professor of Pathology*. B.S. 1932, M.D. 1936, Maryland. [1965; 1967]
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- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending

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- MYRON WINICK, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York (Brooklyn). [1958; 1968]
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ASSISTANT PROFESSORS

- HENRIETTE E. ABEL, *Clinical Assistant Professor of Medicine*. A.B. 1955, Vassar; M.D. 1959, Cornell. [1960; 1969]
- ROBERT R. ABEL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Princeton; M.D. 1956, Cornell. [1957; 1967]
- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- INA R. ALTMAN, *Assistant Professor of Radiology*. B.S. 1956, Brooklyn; M.D. 1960, Women's Medical College, Philadelphia. [1965; 1967]
- HARLAN C. AMSTUTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1952, M.D. 1956, U.C.L.A. [1964; 1967]
- ARTHUR A. ANDERSON, JR., *Clinical Assistant Professor of Psychiatry*. B.S. 1949, M.D. 1954, University of Washington (Seattle). [1955; 1967]
- WILLIAM A. ANDERSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1942, Tuskegee Institute; M.D. 1953, University of Michigan. [1957; 1968]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- LUCIEN I. ARDITI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. [1955; 1965]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- DONALD ARMSTRONG, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- WILLIAM DAVID ARNOLD, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- JASON ARONSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]
- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- SULAMITA BALAGURA, *Assistant Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1965]
- HAROLD BALTAXE, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1960, University of Lausanne; P.C.B. 1952, University of Paris. [1969]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]

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- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- CARL G. BECKER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- THOMAS BECKETT, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1949, Yale; M.A. 1951, Columbia; Ph.D. 1958, Adelphi. [1960; 1968]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1950, Pittsburgh. [1948; 1953]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
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- RICHARD M. BERGLAND, *Assistant Professor of Surgery (Neurosurgery)*. B.S. 1954, Wheaton; M.D. 1958, Cornell. [1962; 1967]
- CARL A. BERNTSEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- RICHARD E. BETTIGOLE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1953, Yale; M.D. 1957, Columbia. [1964; 1966]
- HARRY BIENENSTOCK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Yeshiva; M.D. 1957, Chicago. [1960; 1968]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- ROBERT T. BINFORD, JR., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Vanderbilt; D.M.D. 1955, M.S. 1959, Alabama; M.D. 1963, Cornell. 1965; 1967]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- SHELDON BLACKMAN, *Clinical Assistant Professor of Psychology in Psychiatry*. A.B. 1956, Princeton; M.A. 1958, Ph.D. 1960, Ohio State. [1968]
- JACK H. BLOCH, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1952, M.D. 1957, U.C.L.A.; Ph.D. 1967, Minnesota. [1968]
- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- LEMUEL BOWDEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- DAVID G. BRAGG, *Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1955, Stanford; M.D. Oregon. [1966]
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- ROBERT G. BRAYTON, *Assistant Professor of Medicine*. B.A. 1954, Williams; M.D. 1958, Cornell. [1961; 1968]
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- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955; Ph.D. 1959, New York University. [1961; 1964]

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- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- JOHN L. BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]
- STUART I. BROWN, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.S.M. 1955, M.D. 1957, Illinois. [1966]
- ALBERT N. BROWNE-MAYERS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1933, Wisconsin; M.D. 1937, Columbia. [1949; 1967]
- MARY C. BUCHANAN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.B., Ch.B., B.Sc., 1946, University of Edinburgh; D.C.H. 1952, University of London. [1959; 1968]
- PETER BULLOUGH, *Assistant Professor of Pathology*. 1950, Blackpool Grammar School; M.D. 1956, Liverpool University Medical School. [1969]
- HECTOR M. CABOT, *Assistant Professor of Physiology in Obstetrics and Gynecology*. Provisional Obstetrician and Gynecologist, New York Hospital. B.S. 1947, M.D. 1966, Ministry of Public Education, University of Montevideo, Uruguay. [1967]
- DONALD J. CAMERON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1961; 1965]
- WALTER CAMP, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1953, Arkansas; M.D. 1957, Emory. [1965; 1968]
- VIRGINIA C. CANALE, *Assistant Professor of Pediatrics*. B.S. 1957, Marymount; M.D. 1961, Woman's Medical College of Pennsylvania. [1964; 1969]
- ARTHUR S. CARLSON, *Clinical Assistant Professor of Pathology*. A.B. 1941, Brooklyn; M.D. 1952, Cornell. [1954; 1969]
- WALTER T. CARPENTER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1934, Williams; M.D. 1938, Cornell. [1943; 1968]
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- BENEDICT S. CATERINICCHIO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Johns Hopkins; M.D. 1958, New York. [1959; 1968]
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- WALTER W. Y. CHAN, *Assistant Professor of Pharmacology*. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1966]
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- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]
- HUGH E. CLAREMONT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B.B.S. 1944, M.D. 1951, University of London; M.S. 1958, Colorado. [1958; 1966]
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- FRANCIS P. COOMBS, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1937, Colgate; M.D. 1940, Cornell. [1963; 1968]
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- ARMAND CORTESE, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1954, Columbia; M.D. 1958, Cornell. [1959; 1969]
- DENTON S. COX, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- JEAN A. CRAMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1950, Cornell [1951; 1967]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- MARION DAVIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- MICHAEL D. F. DECK, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.B.B.S. 1961, University of Sydney, M.C.R.A. 1965, College of Radiologists of Australia; F.F.R. 1967, Royal College of Surgeons, London. [1968]
- ALAN DEMAYO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1949, University of Michigan; M.D. 1953, Albany. [1959; 1968]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology (Radiobiology); Assistant Professor of Radiobiology in Medicine*. B.A. 1949, Notre Dame of Staten Island; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1968]
- MONROE T. DIAMOND, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- ROBERT W. DICKERMAN, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962, 1965]
- CAROLYN H. DIEHL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1946, M.D. 1950, Cornell. [1952; 1966]
- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- DUANE L. DOWELL, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1968, DePauw; M.D. 1962, Illinois. [1968]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]
- ROBERT E. DYE, *Clinical Assistant Professor of Medicine*. A.B. 1950, Duke; M.D. 1958, University of Virginia. [1961; 1969]
- ROBERT E. ECKHARDT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve. [1948; 1966]
- MARTIN EDELMAN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1956, M.D. 1960, Cornell. [1961; 1969]
- KATHRYN H. EHLERS, *Assistant Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1966]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending

- Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1963]
- RALPH A. ESKESEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Drew; M.D. 1943, Johns Hopkins. [1952; 1968]
- RICHARD G. EVANS, *Assistant Professor of Radiology (Physics)*. B.Sc. 1956, University of Wales; M.S. 1966, Ph.D. 1968, U.C.L.A. [1968]
- M. ELAINE EYSTER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Duke. [1961; 1967]
- THOMAS J. FAHEY, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1955, Fordham; M.D. 1959, Cornell. [1965; 1967]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- RANDOLPH M. FERLIC, *Clinical Assistant Professor of Surgery*. B.S. 1958, M.D. 1961, Creighton. [1968]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- CLAUDE E. FORKNER, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1949, Harvard; M.D. 1954, Cornell. [1960; 1969]
- GERARD FOUNTAIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1939, M.D. 1943, Yale. [1958; 1966]
- NICHOLAS FREYDBERG, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1927, Pennsylvania; Ph.D. 1963, New York University. [1963; 1967]
- LIONEL O. FRIEDMAN, *Clinical Assistant Professor of Psychiatry*. B.A. 1952, New York University; M.D. 1955, State University of New York, New York City. [1967]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]
- MARTIN GARDY, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, C.C.N.Y.; M.D. 1960, Cornell. [1963; 1966]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- BERNARD GHELMAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1958, Andrews College, Rio de Janeiro; M.D. 1963, University of Brazil. [1969]
- DAVID L. GLOBUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1954, Washington University. [1958; 1966]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- DORIS K. GOLDBERG, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Vassar; M.D. 1957, N.Y.U. [1959; 1968]
- HOWARD GOLDIN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, Amherst; M.D. 1961, Cornell. [1962; 1969]
- HARRY S. GOLDSMITH, *Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. A.B. 1952, Dartmouth; M.D. 1956, Boston University. [1963; 1967]

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- JOSE L. GRANDA, *Assistant Professor of Medicine (Biochemistry)*. Assistant Attending Physician, New York Hospital. M.D. 1956, University of Madrid; Ph.D. 1963, University of Maryland. [1966]
- GEORGE F. GRAY, JR., *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1956, Texas; M.D., M.S. 1961, Baylor. [1968]
- NELSON M. GRAY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.Sc., M.D.C.M. 1932, M.Sc., 1934, McGill University. [1968]
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- PETER C. HARPEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Harvard. [1963; 1968]
- THOMAS S. HARPER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1937, California Technological Institute; M.D. 1942, Colorado. [1966]
- IRVING B. HARRISON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Cornell. [1968]
- MARGARET O. HARRISON, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiologist, Hospital for Special Surgery. [1968]
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- ROYAL J. HASKELL, JR., *Clinical Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). A.B. 1952, Syracuse; M.A. 1958, Ph.D., 1959, Johns Hopkins. [1968]
- ARTHUR H. HAYES, JR., *Assistant Professor of Medicine; Assistant Professor of Pharmacology*, Assistant Attending Physician, New York Hospital. A.B. 1955, University of Santa Clara; M.A. 1957, Oxford University, England; M.D. 1964, Cornell. [1965; 1968]
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- PHILIP S. HERBERT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1947, M.D. 1951, Cornell. [1952; 1968]
- RICHARD HERRMANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]

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- BASIL S. HILARIS, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1966]
- MARGARET W. HILGARTNER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1946, Bryn Mawr; M.A. 1952, M.D. 1955, Duke. [1956; 1967]
- RICHARD HNAT, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Columbia [1962; 1969]
- RAYMOND B. HOCHMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1967]
- SEYMOUR HOPFAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1939, M.D. 1948, Royal College of Edinburgh, Scotland. [1966]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- DONALD W. HOSKINS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
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- FREDERICK SILVERMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory; M.D. 1953, Indiana. [1957; 1968]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- HARRY A. SINCLAIRE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, Amherst; M.D. 1946, Cornell. [1949; 1968]
- DAVID I. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1952, Union College; M.D. 1956, New York University. [1960; 1966]
- JAMES P. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- JOHN K. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1957, M. D. 1960, Cornell. [1961; 1968]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- DAVID E. SOBEL, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, North Carolina; M.D. 1953, Cornell. [1966]
- JAMES H. SPENCER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]
- WILLIAM B. STASON, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, University of Michigan; M.D. 1960, Harvard. [1969]
- GEORGE STASSA, *Assistant Professor of Anatomy; Assistant Professor of Radiology*. A.B. 1956, M.D. 1960, Columbia. [1964; 1967]
- TOM G. STAUFFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]
- E. THOMAS STEADMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1950, M.A. 1953, Amherst; M.D. 1957, Cornell. [1958; 1968]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1967]
- PETER H. STERN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assisting Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949, 1964]
- ELLIOT W. STRONG, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.S. 1952, M.D. 1956, Tufts. [1959; 1967]

- JOHN F. STRUVE, *Clinical Assistant Professor of Otorhinolaryngology*. Associate Attending Otorhinolaryngologist, New York Hospital. A.B. 1943, Allegheny; M.D. 1947, Jefferson. [1950; 1969]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Hsuanan, China. [1954; 1962]
- JOHN D. TERMINE, *Assistant Professor of Biochemistry (Surgery)*. B.S. 1960, St. John's; M.S. 1963, University of Maryland; Ph.D. 1966, Cornell. [1966; 1969]
- ICHIRO TOIDA, *Visiting Assistant Professor of Public Health*. M.D. 1953, Tokyo University. [1968]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- MORTON L. WADSWORTH, *Clinical Assistant Professor of Psychiatry*. Ph.B. 1929, M.D. 1934, Chicago. [1950; 1969]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- BETTINA WARBURG, *Clinical Assistant Professor of Psychiatry*. A.B. 1921, Bryn Mawr; M.D. 1926, Cornell. [1965]
- PORTER H. WARREN, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1952, Tulane. [1961; 1968]
- CAROLYN W. WATSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- JOHN WEBER, *Assistant Professor of Anatomy*. B.A. 1961, Columbia; D.D.S. 1965, Columbia. [1967; 1969]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- WILLIAM WHEAT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]
- CARL WIERUM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]
- FLORENCE WILSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.D. 1953, Cornell. [1957; 1968]
- PETER G. WILSON, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- SIDNEY J. WINAWER, *Assistant Professor of Medicine*. A.B. 1952, New York University; M.D. 1956, State University of New York (Brooklyn). [1966]
- PATRICIA H. WINCHESTER, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1955, M.D. 1959, Duke. [1960; 1968]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending

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- Physician, New York Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- KATSUHIKO YANO, *Assistant Professor of Public Health*. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, Japan. [1967]
- ALVIN YAPALATER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943 Oklahoma; M.D. 1946, Tulane. [1966]
- SAMUEL D. J. YEH, *Assistant Professor of Medicine*. M.D. 1948, National Defense Medical Center, Shanghai; D.Sc. 1954, Johns Hopkins. [1965; 1969]
- CHARLES W. YOUNG, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

CORNELL UNIVERSITY MEDICAL COLLEGE

HISTORY

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the College for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, professor of surgery; Dr. James Ewing, professor of pathology; and Dr. Graham Lusk, professor of physiology. The College has been well-known, from the time of its establishment, for a faculty composed of persons distinguished both as scientific investigators and as teachers.

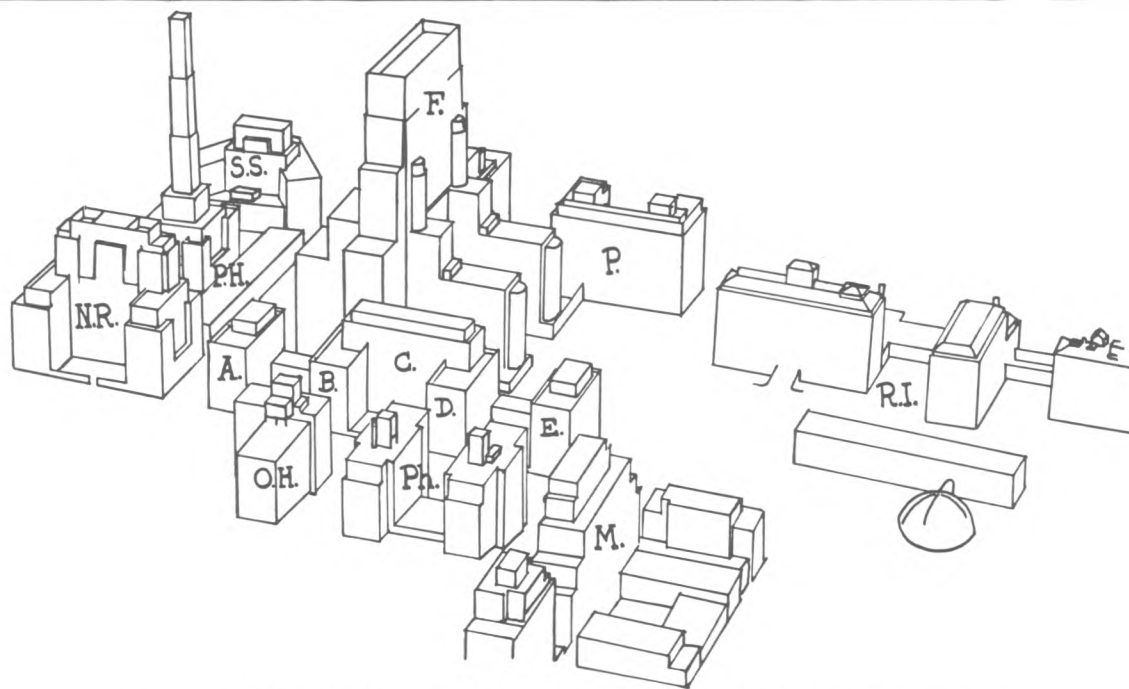
In 1900, the College occupied its first permanent headquarters at Twenty-eighth Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

Cornell University Medical College has always had as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that, in the ideal medical school, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with the New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

A. Anatomy.
 B. Microbiology and Immunology.
 C. Administration and Pathology.
 D. Physiology.
 E. Biochemistry and Pharmacology.

F. New York Hospital.
 M. Memorial Hospital.
 N.R. Nurses' Residence.
 O.H. Olin Hall.
 P. Payne Whitney Psychiatric Clinic

Ph. Phipps Houses.
 P.H. Power and Maintenance.
 R.I. Rockefeller Institute.
 S.S. Hospital for Special Surgery.

been founded by Royal Charter in 1771 during the reign of King George III. It has stood since that time as one of the foremost hospitals in the country. The partial affiliation between the two institutions was strengthened in 1927 when an agreement between Cornell University and The Society of the New York Hospital established The New York Hospital-Cornell Medical Center. The agreement joined the facilities of the two institutions and provided for cooperation in the care of patients and in the conduct of medical education and scientific research. A Joint Administrative Board, which consists of three representatives of each institution and a seventh member elected by the others, coordinates the policies of the Center. The position of director of The New York Hospital-Cornell Medical Center was established in 1953. In 1966, a new position, that of president of The New York Hospital-Cornell Medical Center, was established.

In 1932, The New York Hospital-Cornell Medical Center was moved to its present site on York Avenue between Sixty-eighth and Seventy-first Streets. Twenty impressive buildings, most of them of modified Gothic design, now make up the Center. The William Hale Harkness Medical Research Building, a ten-story structure located at York Avenue and Seventieth Street, will bring to twenty-one the number of buildings in the complex. Cornell University Medical College, the New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors—the Rockefeller University, the Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center—form one of the outstanding medical, educational, treatment, and research centers in the world.

FACILITIES FOR INSTRUCTION

The facilities provided by the physical plant of the New York Hospital-Cornell Medical Center for medical instruction are, in many respects, unexcelled. The Center comprises a large complex of buildings that are connected either conventionally or by underground passages. The facilities of the Center include ample accommodations for the care of hospital patients, for teaching which is conducted in the clinical departments, and for various activities related to the work of basic science departments in the Medical College.

Cornell University Medical College

Instruction in the medical sciences is conducted in the buildings along York Avenue from Sixty-eighth to Seventieth Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the Library are on the first floor of this building. The Medical College Alumni Office (Room C-140) and the Office of Admissions and Student Affairs (Room C-118) are located directly behind the Library. The B

and D areas of the Medical College adjoin the Wood Building on the north and south sides. The upper floors of the central portion of the Medical College house the Departments of Microbiology, Pathology, Public Health and Physiology, along with the research laboratories for several of the clinical departments. The Department of Anatomy is in the building at Seventieth Street (Area A), and the building at the Sixty-eighth Street (Area E) end of the College houses the Departments of Biochemistry and Pharmacology. The central buildings are joined to the main hospital buildings on each of the seven floors. The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students also are housed in the buildings along York Avenue.

Graduate School of Medical Sciences

Medical students whose career goals make additional advanced graduate study leading to the Ph.D. degree desirable should consult the *Announcement of the Graduate School of Medical Sciences*.

Although there is no provision for combined registration in the Medical College and the Graduate School, the General Committee of the Graduate School of Medical Sciences may accept a maximum of two units of residence credit toward the Ph.D. degree for study completed in the medical curriculum. By utilizing elective time in the medical curriculum, particularly during the fourth year, for approved course work or research, a student might complete the minimal residence requirements for the Ph.D. in two years additional to the requirements for the M.D. degree.

Medical students interested in this program should apply for admission to the Graduate School of Medical Sciences as early as possible during their medical curriculum but not later than the beginning of their fourth year so that individual advisory committees can guide their planning. Further information may be obtained from the associate dean of the Graduate School of Medical Sciences.

The New York Hospital

Clinical instruction is given in the eight separate departments forming the New York Hospital. The medical and surgical departments occupy the central hospital building, the women's clinic (Lying-In Hospital), the pediatric department and the psychiatric department (Payne Whitney Clinic) extend from north to south, overlooking the East River. Each clinic contains facilities for bed patients, and out-patient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building, with semiprivate areas for bed patients, three floors for the outpatient department, and extensive laboratories

for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semiprivate beds and out-patient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are 6 floors containing 128 rooms for private patients. Living quarters for the resident staff are on the floors at the top of the main 27-story building and in the new house-staff residence across York Avenue. The entire Hospital has a capacity of approximately 1,230 beds. The Westchester Division in White Plains, N.Y., contains an additional 350 beds. This division, together with the Payne Whitney Clinic, forms the Department of Psychiatry of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the Hospital. He is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the College and the Hospital. Other members of the faculty devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage also is taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

THE HOSPITAL FOR SPECIAL SURGERY

The Hospital for Special Surgery, which includes a modern hospital facility containing 204 beds and a new adjoining research building, is at 535 East Seventieth Street across from the New York Hospital. The Hospital for Special Surgery provides the orthopedic and rheumatic services of The New York Hospital-Cornell Medical Center.

MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES

Memorial Hospital is affiliated with the Sloan-Kettering Institute for Cancer Research; the two institutions form Memorial Sloan-Kettering Cancer Center. In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the Hospital be named by the

Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital has 273 beds, and the James Ewing Pavilion, formerly a municipal hospital affiliated with Memorial, has 240 beds.

FRANKLIN D. ROOSEVELT VETERANS ADMINISTRATION HOSPITAL

This 1,800-bed psychiatric hospital, located in Montrose, New York, recently has become affiliated with the Medical College.

Manhattan Eye, Ear and Throat Hospital

One of the world's principal centers for the diagnosis and treatment of disorders of sight, hearing, and speech, Manhattan Eye, Ear and Throat Hospital became affiliated with Cornell University and the New York Hospital in 1968. In addition to its programs of patient care and treatment, the Manhattan now serves as Cornell University Medical College's teaching facility in ophthalmology and otorhinolaryngology and as a patient referral center for those specialties. Medical teaching is under the direction of the Medical College which, along with the New York Hospital, provides a wide range of consultative and other services not ordinarily available in a specialty hospital.

The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886, at 414 East Twenty-sixth Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

The Libraries

The reading room of the Medical College Library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at 1300 York Avenue. The sections for current journals, reference works, and medical monographs are adjacent to the reading room. The book stacks and carrels are on the two floors below the main reading room.

The College Library has more than 90,000 books and 1,360 journals dealing with the medical sciences and clinical medicine. There are many complete sets of important journals in English, German, and French as well as selected collections of monographs and textbooks.

Several of the departments in the Medical College have libraries with journals, monographs, and textbooks pertaining to the specific subject areas of the departments. These collections, interlibrary loans, and photoduplicate copies from other libraries, including the National Library of Medicine, supplement the Medical College Library.

In addition to using the College Library, students may obtain certain privileges at the library of the New York Academy of Medicine. The Academy, which is located at Fifth Avenue and 103rd Street, has the second-largest medical library in the United States.

THE OSKAR DIETHELM HISTORICAL LIBRARY. Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly 10,000 original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the Library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

The Russell Sage Institute of Pathology

The Russell Sage Institute of Pathology has been associated with the Medical College since 1913 and was incorporated into The New York Hospital in 1932. The Institute supports work in metabolism which is conducted by members of the Departments of Medicine and Physiology. The Medical Director of the Institute is Dr. Alexander G. Bearn, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical professions, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. Cornell was one of the first medical colleges in the United States to require a college degree as a standard of admission. Only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell University Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill in order to qualify for admission to the study of medicine in New York State are set forth in the *Regulations of the Commissioner of Education*. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with this minimal preparation as background.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for any student planning to study medicine. We recommend two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for any medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that

thorough basic training in the sciences is essential. On the other hand, a science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Committee on Admissions selects a class of approximately eighty-nine students from a group of more than 1,600 applicants. The members of the Committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, and soundness of personality that will enable them to complete satisfactorily their course in the Medical College. Moreover, a medical school must acknowledge its serious obligation to society. It must graduate only those who can be expected, with reasonable certainty, to do creditable work in medicine after graduation. The Committee on Admissions selects from all the applicants those who best seem to fulfill these requirements.

In selecting a relatively small class from a large group of well-qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well-qualified students with varied backgrounds—from various geographic areas, from different socioeconomic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Committee on Admissions looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule, the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as adequate to fulfill the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms should be addressed to the Committee on Admissions, 1300 York Avenue, New York, New York 10021. In order to apply for admission, the regular form issued for this purpose must be completed and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. Because of the large number of students applying in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a specific year, the application forms may be obtained upon request, beginning on July 1 of the previous year. The applications should be filed after that date. No applications will be accepted after November 30.

A nonrefundable charge of \$10 is made for submitting an application. A check or money order made payable to Cornell University Medical College should be sent with the application.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

Owing to the large number of applicants it is not possible for the Committee on Admissions to have personal interviews with every candidate. Therefore, the invitations for interview are decided by the Committee. However, any student who is attending a college at a distance from New York City is invited to write and request an interview if he is visiting in the area. In such instances, every effort will be made to arrange personal conferences with members of the Committee on Admissions.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION FOR ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make the deposit of \$50. Candidates seeking admission to advanced standing must furnish acceptable evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University

Medical College. These applicants must present a certificate of honorable dismissal from the medical school, or schools, they have attended, and they may be required to take examinations in any of the medical courses taken in another school.

Although a certain number of students are regularly admitted from other institutions to enter the third-year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have completed all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching of this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances one academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who, by quality of work or conduct, indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year, examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the committee on promotion and graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 percent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in fewer than 40 percent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be reexamined in these subjects but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on reexaminations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room D-07, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1969.

TUITION FEE (for academic year) \$1,700

COMPREHENSIVE FEE (For academic year) \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

1. **MATRICULATION FEE**

2. **STUDENT HOSPITALIZATION INSURANCE.** This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

3. **PERSONNEL HEALTH SERVICE.** See description, p. 58.

4. **GRADUATION FEE AND RENTAL FEE** for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES. The average cost of books and instruments is distributed approximately as follows: first years, \$275; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. Monocular microscopes are available for rental at \$35 to \$50 a year. Anyone wishing to rent one of these microscopes should write to the Office of Admissions to make reservation as early as possible.

PERSONNEL HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is given by a member of the Health Service staff. In addition, each student must report for a chest x-ray examination, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any x rays, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance, unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the Comprehensive Fee. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the Health Service staff. All cases of illness must be reported to Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the Health Service is expected. Wives and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

RESIDENCE HALLS

F. W. Olin Hall, a student residence which was built with a generous gift from the Olin Foundation, was completed for occupancy in 1954. The residence is located at 445 East Sixth-ninth Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt Jr. Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but since two rooms share a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Student rental for an academic year is \$600; for a full year (twelve months), \$710; and for periods of

less than an academic year, \$60 per month. Several cafeterias are available in the main college and hospital buildings.

There are a limited number of apartments available through the Medical College for married students.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. **THE JOHN METCALF POLK SCHOLARSHIP.** A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. **THE THORNE SHAW SCHOLARSHIP FUND** provides three scholarships designated as: (1) one scholarship of approximately \$400, available to students after at least two years of study in the Medical College; (2) two scholarships of approximately \$200 each, available to students after at least one year of study in the Medical College.

3. **MARY F. HALL SCHOLARSHIP.** The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in Cornell University Medical College who needs its aid, who is a bona fide resident of the State of New York, and was such prior to admission to the College.

4. **THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND** of \$5,000 was established in 1936. The income is available

annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be utilized for research work or other projects as determined by the faculty or trustees.

5. THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND of \$5,000 was established in 1939. The income is available annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be used for research work or other projects as determined by the faculty or trustees.

6. THE JEREMIAH S. FERGUSON SCHOLARSHIP was established in memory of Jeremiah S. Ferguson, who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid and who, by their conduct and scholarship, have proved worthy investments.

7. THE CHARLES RUPERT STOCKARD SCHOLARSHIP. A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, Professor of Anatomy in the Cornell University Medical College, 1911-39. The interest from this fund is to be awarded either to one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that Department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the Department of Anatomy.

8. THE DR. JOHN A. HEIM SCHOLARSHIPS. This fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated medical students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible.

9. THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND. Established in memory of their daughter, Anita Shirley Hyde, this endowment provides that income be available annually to meritorious students who have completed one year of the regular medical course and who are in need of assistance.

10. **THE DR. JACQUES SAPHIER SCHOLARSHIP FUND** was established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., U.S.N.R.), Class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The income is awarded annually to a meritorious student of Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. **THE ELSIE STRANG L'ESPERANCE SCHOLARSHIP.** Established by a bequest from Dr. L'Esperance, this scholarship provides financial assistance for women students at Cornell University Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND** was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley, this scholarship is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

14. **THE LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

16. **DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.** Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. **THE LILLIAN M. CHARLES SCHOLARSHIP FUND.** The income from this fund, which was established by a generous gift from Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

18. **VIVIAN B. ALLEN SCHOLARSHIP.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. **MARY LOUISE WUESTER SCHOLARSHIP.** The income from this fund, which was established in memory of his mother by Dr. William O. Wuester, is awarded annually to a regularly matriculated medical student of good scholarship who is in need of financial aid.
20. **THE ROBERT E. SPENO SCHOLARSHIP FUND** was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.
21. **ELIZABETH AND NEIL HOUSTON SCHOLARSHIP FUND.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.
22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by the gift of Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.
23. **THE JOSEPH P. FERRIGAN FUND.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.
24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.
25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.
26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Coppermines Foundations, Inc., the fund provides financial assistance for needy and worthy students.
27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.
28. **THE MARY PUTNAM JACOBI—ANNA FORREST ROWE SCHOLARSHIP.** A bequest from William Vincent Rowe endowed this fund. The income provides scholarship assistance, preferably for women medical students.
29. **THE JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND** was established by a bequest from the estate of E. Norma P. Graham. It provides scholarship assistance for deserving students of the Medical College.

30. **THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND.** The income from the endowment, given by Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

31. **THE DR. EDWARD HOENIG SCHOLARSHIP FUND** was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. **THE PFIZER LABORATORIES SCHOLARSHIP.** The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

33. **THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT.** A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.

34. **THE WELD FUND SCHOLARSHIP.** Established by David and Mary Blake Weld, the income from this fund provides scholarship assistance for needy students who are in good academic standing.

35. **THE CARL J. SCHMIDLAPP MEMORIAL FUND.** was established by Dr. Jean Schmidlapp Humes '49 in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded annually to a deserving student in any class of Cornell Medical College selected by the faculty on the basis of need and ability.

36. **MAIER AND SHANTSYA HITZIG SCHOLARSHIP.** Dr. William M. Hitzig '29, established this scholarship in memory of his father and mother through a gift of \$5,000. The income from this fund is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

37. **THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP.** Generous gifts of \$80,000 each to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four-year scholarship to one or two students. The donors hope "to stimulate the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award was made in 1968.

38. **THE PHILIP G. WOODWARD SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest to The Society of the New York Hospital from Philip G. Woodward, is available to be used for Philip G. Woodward Scholarships, to be awarded to third- or fourth-year medical students of the Cornell University Medical College, who have demonstrated interests, initiative, and ability in the fields of psychiatry, neurology, and/or behavioral biology.

39. **THE WALTER C. TEAGLE SCHOLARSHIP FUND**, established July 1, 1963, by The Teagle Foundation, Incorporated, is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

40. **SAMUEL FARRAR KELLEY M.D., SCHOLARSHIP FUND**. Endowment for this fund was given by Mrs. Lillian E. Kelley in memory of her husband. Support from this fund is available to students in good standing who need financial assistance.

41. **THE JOHN V. BOHRER SCHOLARSHIP FUND**. Established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer, scholarships from this fund are awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

42. **NEW YORK COMMUNITY TRUST SCHOLARSHIP**. These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened medical students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

43. **CONNIE GUION SCHOLARSHIP**. Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

44. **HEALTH PROFESSIONS SCHOLARSHIP PROGRAM**. At the present time the Health Professions Scholarship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes approximately \$16,000 per year for each enrolled class. Maximum awards may not exceed \$2,500 per year, and all awards are based on demonstrated financial need.

45. **THE ANNA E. RAY ROBINSON EDUCATION FUND**. The income from this fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for medical students. A preference is to be given to descendants of Anna E. Ray Robinson and her husband.

46. **THE DICK KATZIN M.D. SCHOLARSHIP FUND** was established in 1966 by Dick Katzin '65. The income will be used to give financial aid to needy students.

47. The DR. THOMAS LOWRY SCHOLARSHIP FUND was established by Dr. Elizabeth C. Lowry, a member of the class of 1935, in memory of her late husband, Dr. Thomas Lowry, who was also a member of that class. The income is to be used to provide financial assistance to women students in the Medical College. If in any year there is no woman student in need of such assistance, the income available may be awarded to a woman candidate for a Ph.D. in the Graduate School of Medical Sciences.

48. THE EVELYN BUCKALEW OCHESTER AND CHARLES W. OCHESTER MEMORIAL SCHOLARSHIP FUND. This permanent endowment fund was created by Alfred J. and LeMoine R. Buckalew in memory of their sister, Evelyn Buckalew Ochester, and her husband, Charles W. Ochester. Income from the fund is used to provide financial assistance or incentive recognition awards to worthy students who are in need.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM. Applications should be filed before July 1 for each academic year but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY. Applications should be filed by October of the last year of preprofessional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.
2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.
3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.
4. **JOSEPH C. HINSEY LOAN FUND.** Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.
5. **FEDERAL LOAN FUND.** The Medical College has participated with the Department of Health, Education, and Welfare in establishing a Health Professions Student Loan Fund, pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963. Loans up to \$2,000 may be made yearly if justified by financial need. Interest is not charged until three years after graduation and then is assessed at the federal interest rate current at the time the loan was made. Loans are to be repaid during a ten year period beginning three years after graduation.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

Students seeking New York State guaranteed loans should apply to: New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

PRIZES

1. **FOR GENERAL EFFICIENCY.** Three prizes are given in commemoration of John Metcalfe Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes

are presented at the end of the fourth year to the three students who have the highest academic standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. **EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund which was provided by the members of the Division of Otolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes, endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first Dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$250, and the second of \$150. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

The William Mecklenburg Polk Prize awards for research for 1969 follow.

First prize: John I. Gallin

Second prize: Edward A. Sickles

6. **THE WILLIAM C. THRO MEMORIAL FUND** was established in memory of William C. Thro '01 whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938.

The prize award is given to the student who attains the best record in the clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

7. THE HERMAN L. JACOBIOUS PRIZE IN PATHOLOGY was established in 1945 by a gift from Dr. Lawrence Jacobius and his friends in memory of his son, Dr. Herman L. Jacobius '39, who was killed in action in the Netherlands on September 28, 1944. The income is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction, the award will be withheld.

8. THE BORDEN UNDERGRADUATE RESEARCH AWARD. The terms of this grant by the Borden Company Foundation, Inc., provide for an award of \$500 to a fourth-year student during any one calendar year. The award will be made under the following terms and conditions:

A. The Award is presented at graduation to the student whose research has been determined by the Medical College to be the most meritorious performed by a member of the graduating class. The originality of the research project and the thoroughness of the investigation are the major determinants in the selection of the recipient.

B. If the Dean finds it inappropriate to make the award in any one year, the award will be deferred until the following year. Only one award, however, will be made during any one calendar year. To be considered for this prize, the theses must be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Borden Prize for Research for the year 1969 was awarded to Robert C. Collins

9. THE GOOD PHYSICIAN AWARD. A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. CHARLES L. HORN PRIZE FUND. The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. THE SAMUEL HOLLANDER PRIZE. The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the committee on scholarships.

12. THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY. Established in 1962 by Miss Berthe Manent, a graduate of the New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback will be remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income of this fund is to be awarded yearly, at the

discretion of the professor in charge, to a student who has performed outstanding work in anatomy.

13. **THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the professor in charge.

14. **THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

15. **THE HAROLD G. WOLF RESEARCH PRIZE** is presented in memory of the late, famed Chief of Neurology at The New York Hospital-Cornell Medical Center, Dr. Harold G. Wolff. The prize consists of \$300 and a selection of writings which represents Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15. The Harold G. Wolff Research Prize for the year 1969 was awarded to: John W. Hirshfeld, Jr.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

17. **THE CLARENCE C. CORYELL PRIZE IN SURGERY** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. **THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS.** Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in pediatrics.

19. **NATIONAL FOUNDATION MERIT AWARD.** The National Foundation offers a Merit Award of \$250 to the medical student who

is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate by April 15. For 1969 the National Foundation Merit Award was given to Kathleen M. Foley.

20. **THE GEORGE S. MEISTER PRIZE IN PEDIATRICS** has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The prize consists of income derived annually from a fund contributed by members of his family, close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics.

21. **THE SONDRAL LEE SHAW MEMORIAL FUND.** The fund supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the medical student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research. The Sondra Lee Shaw prize for 1969 was awarded to: Robert G. Robinson.

22. **THE SARAH O'LOUGHLIN FOLEY PRIZE IN CLINICAL MEDICINE.** Dr. William T. Foley, Clinical Associate Professor of Medicine and a member of the class of 1937, established this annual prize of \$250 in memory of his mother. The recipient, a member of the graduating class, is selected for excellence in clinical medicine by the chairman of the Department of Medicine.

23. **THE ANTHONY SETH WERNER, M.D., MEMORIAL PRIZE** was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The prize is awarded annually for excellence in the study of infectious diseases.

24. **THE UPJOHN ACHIEVEMENT AWARD.** This annual award to a member of the graduating class is given in recognition of outstanding achievement in research. Consisting of \$150 and a plaque, the award is supported by the Upjohn Company. The prize was awarded this year to: Anthony P. Zavdil III

NAMED PROFESSORSHIPS

The following are the endowed, named professorships at Cornell University Medical College.

THE LIVINGSTON FARRAND PROFESSORSHIP OF PUBLIC HEALTH AND PREVENTIVE MEDICINE, established in 1944 upon receipt of a gift from the Milbank Memorial Fund and the Rockefeller Foundation Fund, is named for Livingston Farrand, who was the

President of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The first and current occupant of the chair is Dr. Walsh McDermott, chairman of the Department of Public Health.

THE GIVEN FOUNDATION PROFESSORSHIP OF OBSTETRICS AND GYNECOLOGY was established in 1963 with funds from Irene Heinz Given and John LaPorte Given Foundation. The foundation's gift was designed to provide endowed support for the chairman of the Department of Obstetrics and Gynecology. Dr. Fritz Fuchs, present occupant of the chair, has as his principal research interest the endocrinology and physiology of human reproduction.

THE ROLAND HARRIMAN PROFESSORSHIP OF CARDIOVASCULAR MEDICINE was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first and present occupant of the chair is Dr. Thomas Killip III, head of the Division of Cardiology in the Department of Medicine. Dr. Killip, a 1952 graduate of the Medical College, has specialized in research studies aimed at reducing mortality from myocardial infarction.

THE BARKLIE MCKEE HENRY PROFESSORSHIP OF PSYCHIATRY, established in 1968, honors the memory of the late Mr. Henry, who was President of The Society of the New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry into the eminent treatment, research, and teaching unit it is today. Dr. William T. Lhamon, Chairman of the department and Professor of Psychiatry since his appointment at Cornell in 1962, is the first occupant of the chair.

THE JOSEPH C. HINSEY PROFESSORSHIP OF ANATOMY, established in 1966 upon receipt of a gift from Nicholas Noyes, is the only professorship named for a living member of the faculty. A former dean of Cornell University Medical College, Dr. Hinsey was director of the Center until his retirement in 1966. He is an emeritus professor in the Department of Neuroanatomy of the Medical College. The first and present occupant of this chair is Dr. Roy C. Swan, a 1947 graduate of the Medical College, who has been professor of anatomy and chairman of the Department of Anatomy since 1959.

THE ISRAEL ROGOSIN PROFESSORSHIP OF BIOCHEMISTRY was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. Dr. Vincent du Vigneaud, who received the Nobel Prize in Chemistry in 1955, was Cornell's first Israel Rogosin Professor. The chair has been held since Dr. du Vigneaud's retirement in 1967 by Dr. Alton Meister, current chairman of the Department of Biochemistry, whose research centers on the chemistry and intermediary metabolism of amino acids.

THE LEWIS ATTERBURY STIMSON PROFESSORSHIP OF SURGERY was established in 1935 by an anonymous gift presented to the

Medical College in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. The present Lewis Atterbury Stimson Professor of Surgery and chairman of the Department of Surgery is Dr. C. Walton Lillehei. He succeeded Dr. Frank Glenn upon Dr. Glenn's retirement in 1967.

THE ANNE PARRISH TITZELL PROFESSORSHIP IN NEUROLOGY was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum, current chairman of the Department of Neurology.

In addition to the professorships described above, a ninth chair, occupied by Dr. Alexander G. Bearn, chairman of the Department of Medicine, has been endowed by Mr. Rogosin but not yet named.

William D. Stubenbord Visiting Professorships

The Stubenbord professorships were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder, Sr., and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31, for them and members of their families." The departments of the College will, in rotation, be host to visiting scholars. Each visiting professor will reside at the College for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship and satisfactory moral qualifications. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual

open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1969 were: Saul J. Ahola; Joseph A. Belladonna, Jr.; G. Peter Bloom; Jeffrey S. Borer; David W. Boyer, Jr.; Robert C. Collins; James H. Dauber; Kathleen Maher Foley; James R. Foster; Steven G. Gabbe; John W. Hirshfeld, Jr.; Neil K. Kochenour; Edward A. Sickles; Sidney F. Stein; G. Frederick Wooten; and Anthony P. Zavadil III.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Albert L. Rubin '50, President
Walter F. Riker, Jr., M'43, Vice President
Frederic T. Kirkham, Jr., '47, Secretary
Henry Mannix, Jr., '50, Treasurer
William A. Barnes '37, Chairman, Medical College Fund

Directors

Three-Year Term: Irving S. Wright '26; John T. Queenan '58
Two-Year Term: C. Stephen Connolly '59, George E. Eddins, Jr., '45,
Eugene M. Lance '58, Alexander G. Reeves '63
One-Year Term: S. Bernard Wortis '27, Frances S. Lansdown '40
Executive Secretary: Carol Ashley

Editorial Board of the *Quarterly*

Richard T. Silver '53, Editor
Donald Kaye, Faculty Representative, Associate Editor
Lawrence Scherr '57, Associate Editor
Ari Kiev '58, Associate Editor
William W. Goodhue, David S. Lerner, Student Editors

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year

except for members of the three most recent graduating classes, whose dues are \$3 a year. The activities of the Association include an annual reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The Association maintains an office in Room C-140. An annual appeal for unrestricted funds for the Medical College is made to the members of the Association.

MILITARY ADVISERS

The following members of the faculty are available to students for consultation on the program offered by the various military units:

Carl A. Berntsen, Clinical Assistant Professor of Medicine—Navy

August H. Groeschel, Assistant Professor of Public Health—Army

Paul A. Skudder, Clinical Associate Professor of Surgery—Coordinator of the Medical Education for National Defense Program

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into seventeen departments. Seven of the departments are primarily concerned with the sciences underlying clinical medicine; they are anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, and public health. Ten departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are anesthesiology, medicine, neurology, obstetrics and gynecology, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, radiology, and surgery.

The heads of major departments together with the President of the University and the dean, constitute the executive faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. The courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one, and often many more, years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of great technical proficiency in the various special fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and a course in normal personality development. Clinical conferences

are given to illustrate the application of the basic sciences to clinical medicine. A series of lectures covering normal growth and development are given by the departments of pediatrics and obstetrics and gynecology.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third-year class meets one hour daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum of the first three years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work if a student wishes.

FOURTH-YEAR CURRICULUM

Clerkships of seven to twelve weeks duration in the forty-five week (September through July) third-year curriculum provide a sound basic introduction to all of the major clinical fields. When a student has completed this clinical "core" curriculum, he is sufficiently acquainted with the various clinical specialties to have identified his primary areas of interest, both in the clinical and basic science fields. Accordingly, he is prepared to plan an educational program for his final medical school year which is best suited to his interests and needs.

The fourth-year program is entirely elective. Thirty-five weeks long, it is divided into elective periods which match the modules of the third year. This enables students who have sound educational reasons to defer certain modules of the third-year core curriculum until the final year.

In the spring of the third year each student chooses a senior faculty member as an adviser to help him in planning his fourth-year program. Numerous elective opportunities available in The Center are described in the *Catalogue of Electives*. Other electives in The Center or in other educational institutions may be arranged with the approval of the student's elective adviser.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$750 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE-YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to

pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

SUMMER FELLOWSHIP PROGRAM FOR MINORITY GROUP PREMEDICAL STUDENTS

Dr. James L. Curtis, assistant dean of the Medical College and associate professor of psychiatry, supervises a program of summer study for black and other special minority group premedical students. Members of the faculty will assist in this program which has the specific aim of increasing the number of minority group students in leading medical schools.

The 1969 program enabled ten Hampton Institute premedical students who had completed their junior year to spend ten weeks as summer Fellows at the Medical Center. They were engaged in a variety of research activities with individual faculty members from different departments as sponsors.

The students in this program are involved jointly with medical students and predoctoral students from the Graduate School of Medical Sciences, all of whom hold similar summer fellowships. The Fellows receive a stipend of \$100 per week. All students are housed in Olin Hall, the medical students dormitory.

A series of seminars, scheduled twice weekly, provide information on medical careers and include such topics as procedure for application to medical schools and means of scholarship aid. Also, students have an opportunity to hear and to question physicians, including black physicians, who live and work in the metropolitan area.

Although the program was initiated through special arrangement with the Hampton Institute, future summer programs will seek minority group students from other colleges and universities in the United States as well. Information regarding application for fellowships can be obtained by writing to James Curtis, assistant dean, Cornell University Medical College. Application should be made preferably early in the junior year and not later than December 15.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman
John MacLeod, Professor of Anatomy

Dorothea Bennett, Associate Professor of Anatomy
Dana C. Brooks, Associate Professor of Anatomy
James L. German III, Clinical Associate Professor of Anatomy
Michael D. Gershon, Associate Professor of Anatomy
Wilbur D. Hagamen, Associate Professor of Anatomy
Myron Jacobs, Clinical Associate Professor of Anatomy
Thomas H. Meikle, Jr., Associate Professor of Anatomy
Leonard L. Ross, Associate Professor of Anatomy
Julio L. Sirlin, Associate Professor of Anatomy

John E. Lee, Clinical Assistant Professor of Anatomy
Walter Rubin, Assistant Professor of Anatomy
Muriel L. Sackler, Assistant Professor of Anatomy
Daya D. Samarasinghe, Visiting Assistant Professor of Anatomy
George Stassa, Assistant Professor of Anatomy
John C. Weber, Assistant Professor of Anatomy

Instructors:

Irene Geyer-Duszynska
Martin Hamburg

Research Associate:

Toby C. Rodman

Fellow:

Anthony Paparo

Assistants:

Karen Artzt	Lorraine Flaherty	Elizabeth Thompson
Marc Bekoff	Ellen Heller Goldberg	Jacqueline Winterkorn
Victor De Leon	Bonnie Shubart	Glenn Wotring
Anna Drakontides	William Soller	

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is what are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations. This is the substance and this is the unique aspect of biological systems which constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first year medical student, and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with first-hand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful

and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into four courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems and are supplemented by demonstration dissections and films. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and development abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS. Lectures in genetics are designed to give the student an understanding in molecular terms of the nature and functioning of the genetic material, so that he may then apply these concepts to the study of heredity and gene action in man. Special attention is given to cytogenetics and human population and biochemical genetics. Lectures and laboratory work in the area of developmental anatomy are presented as part of an interdepartmental course, Human Growth and Development, organized and taught by representatives from the Departments of Anatomy, Obstetrics and Gynecology, Pediatrics, Psychiatry and Public Health. The laboratory work is designed to help the student visualize basic embryological anatomy and developmental relationships. The lectures cover

relevant theoretical material on embryonic and fetal development, prenatal and postnatal factors in human biology especially pertinent to human development, and physical, psychological, and social aspects of maturation into adulthood and old age. 77 hours.

Elective Courses

A. GRADUATE GENETICS SEMINAR COURSE. Current aspects of population genetics. Fall, 1969. DNA transcription and protein synthesis. Spring, 1970. Drs. Bennett, Cavalieri, Cleve, and German.

B. INTRODUCTION TO RESEARCH ON THE NERVOUS SYSTEM. By means of experiments, seminars, and discussions students will be given experience in modern methods of neurological research. Techniques will include electrophysiology, small animal surgery, radioisotope methodology, biochemical measurements, and study of isolated organs. After a broad exposure to the field the student can elect to solve, with assistance, his own research problem. Spring and summer, 1970. Drs. Brooks and Gershon.

C. A REVIEW OF DISSECTION (students should arrange to work in pairs). Dr. Swan. 15 weeks.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

ADVANCED STUDY AND RESEARCH. Opportunities for first- and second-year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students who are considering careers in preclinical science and who wish to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

ANESTHESIOLOGY

JOSEPH F. ARTUSIO Jr., Professor of Anesthesiology, Chairman

WILLIAM S. HOWLAND, Professor of Anesthesiology

BENJAMIN E. MARBURY, Clinical Professor of Anesthesiology

ALAN VAN POZNAK, Clinical Professor of Anesthesiology

CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology

OLGA SCHWEIZER, Associate Professor of Anesthesiology

MARJORIE J. TOPKINS, Clinical Associate Professor of Anesthesiology.

HERBERT ERLANGER, Clinical Assistant Professor of Anesthesiology

ANITA H. GOULET, Clinical Assistant Professor of Anesthesiology

RITA M. JACOBS, Assistant Professor of Anesthesiology

GEORGE R. MONAHAN, Clinical Assistant Professor of Anesthesiology

Clinical Instructors:

Leslie L. Balazs

Raymond G. Barile

Dragan Borovac

John S. L. Chen

Richard A. Cozine

Gabriel G. Curtis

John L. Fox

John G. Halverstam

Aileen F. Kass

Charles Lomanto

Louis J. Maggio

Gail M. Ryan

Jerold Schwartz

Yung Jai Sohn

Liebert Turner

Judith K. Weingram

82 BIOCHEMISTRY

Fellows:

Rosario Aguinaldo	Bienhard Z.Y. Hou	Emmanuel B. Montero
Angel Bautista	Gregorio Javin	Loleta Palac
Anthony J. Burns	Jae-Koo Kim	Susan J. Restituto
Ching-Ming Chen	Homero Simoes Lopes	Sheldon H. Steinbach
Julieto Eltanal	Luis da Graca Miranda	Marlyn G. Sy
Erlina Lobrin Farcon		Nena Sy
Heide Gutierrez		Dragan Vuckovic

SECOND YEAR. The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered not only as depressants of the central nervous system but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The Department also assists in the teaching about drugs which affect respiratory mechanisms. It participates in lectures, laboratory demonstrations, and student seminars.

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists. In this experience, students spend time in the operating rooms and laboratories to see how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

THIRD YEAR. Anesthesiology is taught during seminar-discussion periods. Subjects covered are: history of anesthesia; the anesthetic state and pre-anesthetic medication; pharmacology of general anesthetic agents; maintenance of breathing for patients in coma, resuscitation; balanced anesthesia; the muscle relaxants; adjuvants; hypotensive drugs; hypothermia techniques; effect of anesthesia in patients with cardiovascular disease; recent advances in anesthesia for injured patients; techniques for local and regional anesthesia.

FOURTH YEAR. A clinical program of four or eight weeks either in the New York Hospital or in Memorial Hospital is offered to fourth-year students. The student is assigned to an attending anesthesiologist, whom he assists during preoperative visits, administering anesthesia, and in post-operative and recovery care. Teaching emphasis is placed on respiratory physiology, therapy, and resuscitation. The student is given increasing responsibility during the elective period.

A four- or eight-week laboratory research program under the direction of Dr. Alan Van Poznak is also available. It offers experience in research methods in the study of anesthetic agents. Other research projects are also offered at Memorial Hospital under the direction of Dr. William Howland.

BIOCHEMISTRY

ALTON MEISTER, Israel Rogosin Professor of Biochemistry, Chairman.

AARON S. POSNER, Professor of Biochemistry

JULIAN R. RACHELE, Professor of Biochemistry

ALBERT L. RUBIN, Professor of Biochemistry (Surgery)

ROY W. BONSNES, Associate Professor of Biochemistry

JACK GOLDSTEIN, Associate Professor of Biochemistry

CHARLOTTE RESSLER, Associate Professor of Biochemistry

KURT H. STENZEL, Associate Professor of Biochemistry (Surgery)

DANIEL WELLNER, Associate Professor of Biochemistry

KENNETH R. WOODS, Associate Professor of Biochemistry

ESTHER M. BRESLOW, Assistant Professor of Biochemistry
 HELENA GILDER, Assistant Professor of Biochemistry
 RUDY H. HASCHEMEYER, Assistant Professor of Biochemistry
 S. STEVEN HOTTA, Assistant Professor of Biochemistry
 ROBERT R. RIGGIO, Assistant Professor of Biochemistry (Surgery)
 EDWARD T. SCHUBERT, Assistant Professor of Biochemistry (Surgery)
 GABRIEL H. SCHWARTZ, Assistant Professor of Biochemistry (Surgery)
 JOHN D. TERMINE, Assistant Professor of Biochemistry (Surgery)

Instructors:

Erica Handler	Suresh S. Tate
William B. Rowe	Sherwin Wilk

Research Associates:

Geoffrey F. Bull	Salvatore Stivala
Marian Orlowski	Toshihiko Ubuka

Fellows:

David S. David	Mark B. Weksler
Ralph A. Stephani	Vaira P. Wellner

Assistants:

William F. Bowers	Mona D. Jensen	Sr. Marilyn Stevens
Nora Cooke	Louise A. Lichtenberg	Laura Tarantino
Jerald D. Gass	Lawrence M. Pinkus	Roberta E. Weisbrod
Edmund Hafner	Noel M. Relyea	Peter O. Zelazo
Bernard Horowitz	Paul G. Richman	

GENERAL BIOCHEMISTRY is given in the first and third trimesters of the first year. It is designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. The first term is devoted to lectures, conferences, and demonstrations on proteins, nucleic acids, enzymes, carbohydrates, lipids, vitamins, hormones, and other compounds of biological importance. Consideration is given to metabolism, genetics, and nutrition, and to the application of biochemical and biophysical principles to medicine. During the third trimester, the student may elect to become involved in laboratory research work, or he may choose to undertake intensive library research on one of several topics for the purpose of preparing and writing a scholarly report. In addition, the Department of Biochemistry offers during the third trimester a number of elective courses on special topics. The following topics are typical: (a) metal ions in biochemistry; (b) virus structure; (c) aspects of nervous tissue metabolism; (d) relationships between amino acid metabolism and disease; (e) biochemical mechanisms of ammonia and amino acid utilization; (f) x-ray diffraction: methods and application; (g) kinetics and enzyme mechanisms; (h) application of irreversible thermodynamics in membrane physiology; (i) macromolecular systems in biochemistry; (j) biochemistry of connective tissue; (k) computer methods in biochemistry; and (l) introduction to numerical methods.

Elective Courses

In addition to the elective courses offered within the General Biochemistry course outlined above, the Department of Biochemistry presents the following electives for the advanced student.

ADVANCED BIOCHEMISTRY. Lectures and conferences on recent developments in biochemistry, for graduate students and qualified medical students. Hours to be arranged. Professor Meister and others.

BIOCHEMICAL PREPARATIONS AND TECHNIQUES. Laboratory work dealing with the isolation, synthesis, and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and intermediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged. The Staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the chairman of the Department. Other courses offered in advanced biochemistry are described in the *Announcement of the Graduate School of Medical Sciences*, and are open to qualified medical students.

Courses Open to Special Students

BIOCHEMISTRY. Fee, \$25 a term.

MEDICINE

Alexander G. Bearn, Professor of Medicine, Chairman
 Benjamin Alexander, Clinical Professor of Medicine
 E. Lovell Becker, Professor of Medicine
 Joseph H. Burchenal, Professor of Medicine
 Farrington Daniels, Jr., Professor of Medicine (Dermatology)
 John E. Deitrick, Professor of Medicine
 Murray Dworetzky, Clinical Professor of Medicine (Allergy)
 Ralph L. Engle, Jr., Professor of Medicine
 Aaron Feder, Clinical Professor of Medicine
 Elliot Hochstein, Clinical Professor of Medicine
 Frank L. Horsfall, Professor of Medicine
 William A. Kammerer, Clinical Professor of Medicine
 David A. Karnofsky, Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Thomas Killip, Roland Harriman Professor of Medicine
 Allyn B. Ley, Professor of Medicine
 E. Hugh Luckey, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 W. P. Laird Myers, Professor of Medicine
 Ralph E. Peterson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Sidney Rothbard, Professor of Medicine
 J. James Smith, Clinical Professor of Medicine
 David D. Thompson, Professor of Medicine
 Douglas P. Torre, Clinical Professor of Medicine (Dermatology)
 Robert F. Watson, Clinical Professor of Medicine

Samuel C. Atkinson, Clinical Associate Professor of Medicine
 Jeremiah A. Barondess, Clinical Associate Professor of Medicine
 Lloyd T. Barnes, Clinical Associate Professor of Medicine
 David V. Becker, Associate Professor of Medicine
 Norman Brachfeld, Associate Professor of Medicine
 William A. Briscoe, Associate Professor of Medicine
 J. Robert Buchanan, Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine

Aaron D. Chaves, Clinical Associate Professor of Medicine
 Bayard D. Clarkson, Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 Hartwig Cleve, Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor Medicine
 B. Shannon Danes, Associate Professor of Medicine
 John W. Dougherty, Clinical Associate Professor of Medicine
 William J. Eisenmenger, Clinical Associate Professor of Medicine
 Borje E. V. Ejrup, Clinical Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Alvin H. Freiman, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Mary E. W. Goss, Associate Professor of Sociology in Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Eugene L. Gottfried, Associate Professor of Medicine
 Keith O. Guthrie, Jr., Clinical Associate Professor of Medicine
 Susan J. Hadley, Associate Professor of Medicine
 Leonard L. Heimoff, Clinical Associate Professor of Medicine
 Henry O. Heinemann, Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Lawrence B. Hobson, Clinical Associate Professor of Medicine
 Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond W. Houde, Associate Professor of Medicine
 Abraham S. Jacobson, Clinical Associate Professor of Medicine
 Norman B. Javitt, Associate Professor of Medicine
 George L. Kauer, Jr., Clinical Associate Professor of Medicine
 Donald Kaye, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Herbert Koteen, Clinical Associate Professor of Medicine
 Irwin H. Krakoff, Associate Professor of Medicine
 John S. LaDue, Clinical Associate Professor of Medicine
 Richard E. Lee, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Edward J. Lorenze, Clinical Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Aaron J. Marcus, Associate Professor of Medicine
 Klaus Mayer, Clinical Associate Professor of Medicine
 Abraham Mazur, Clinical Associate Professor of Biochemistry in Medicine
 Ellen McDevitt, Associate Professor of Medicine
 Ralph L. Nachman, Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 Jack Richard, Clinical Associate Professor of Medicine
 Edgar A. Riley, Clinical Associate Professor of Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Thomas N. Roberts, Clinical Associate Professor of Medicine
 Bernard Rogoff, Clinical Associate Professor of Medicine
 David M. Roseman, Clinical Associate Professor of Medicine
 Brij B. Saxena, Associate Professor of Biochemistry in Medicine
 Lawrence Scherr, Associate Professor of Medicine
 Arthur W. Seligmann, Clinical Associate Professor of Medicine
 Paul Sherlock, Clinical Associate Professor of Medicine
 Maurice E. Shils, Associate Professor of Medicine
 Richard T. Silver, Clinical Associate Professor of Medicine
 Gregory W. Siskind, Associate Professor of Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Lawrence S. Sonkin, Clinical Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Herman Steinberg, Clinical Associate Professor of Medicine

Peter E. Stokes, Associate Professor of Medicine
 Richard W. Stone, Clinical Associate Professor of Medicine
 William D. Stubenbord, Clinical Associate Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Parker Vanamee, Associate Professor of Medicine
 Aaron O. Wells, Clinical Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine

Henriette E. Abel, Clinical Assistant Professor of Medicine
 Robert R. Abel, Clinical Assistant Professor of Medicine
 William A. Anderson, Clinical Assistant Professor of Medicine
 Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine
 Lucien I. Ardit, Clinical Assistant Professor of Medicine
 George C. Armistead, Jr., Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine
 Richard E. Bettigole, Assistant Professor of Medicine
 Harry Bienenstock, Clinical Assistant Professor of Medicine
 Robert T. Binford, Jr., Assistant Professor of Medicine
 Robert G. Brayton, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Hugh E. Claremont, Clinical Assistant Professor of Medicine
 Melva A. Clark, Clinical Assistant Professor of Medicine
 Ira B. Cohen, Clinical Assistant Professor of Medicine
 C. Stephen Connolly, Clinical Assistant Professor of Medicine
 Francis P. Coombs, Clinical Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Jean A. Cramer, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine
 Eleanor E. Deschner, Assistant Professor of Radiobiology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 Carolyn H. Diehl, Clinical Assistant Professor of Medicine
 Robert Dye, Clinical Assistant Professor of Medicine
 Robert E. Eckardt, Clinical Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 Ralph A. Eskesen, Clinical Assistant Professor of Medicine
 Elaine Eyster, Assistant Professor of Medicine
 Thomas J. Fahey, Jr., Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Claude E. Forkner, Jr., Clinical Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Martin Gardy, Assistant Professor of Medicine
 David L. Globus, Clinical Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine
 Howard Goldin, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Jose Granda, Assistant Professor of Medicine
 Ernest J. Greenberg, Clinical Assistant Professor of Medicine
 Peter C. Harpel, Assistant Professor of Medicine
 Arthur Hull Hayes, Jr., Assistant Professor of Medicine
 Richard A. Herrmann, Clinical Assistant Professor of Medicine
 Raymond B. Hochman, Clinical Assistant Professor of Medicine
 Eugene L. Horger, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine

James R. Hurley, Assistant Professor of Medicine
 Martin D. Hyman, Assistant Professor of Sociology in Medicine
 Marian Isaacs, Assistant Professor of Medicine
 Norman J. Isaacs, Clinical Assistant Professor of Medicine
 Brian E. Johnson, Assistant Professor of Physiology in Medicine
 Warren D. Johnson, Jr., Assistant Professor of Medicine
 Vincent A. Joy, Clinical Assistant Professor of Medicine
 Anna Kara, Assistant Professor of Medicine
 Ivan Kahn, Clinical Assistant Professor of Medicine
 J. Harry Katz, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 John T. Kimball, Clinical Assistant Professor of Medicine
 Edward M. Kline, Clinical Assistant Professor of Medicine
 Mortimer J. Lacher, Clinical Assistant Professor of Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Charles S. LaMonte, Assistant Professor of Medicine
 Harold L. Leder, Clinical Assistant Professor of Medicine
 Burton J. Lee, III, Clinical Assistant Professor of Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Leo R. Lese, Clinical Assistant Professor of Medicine
 Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Stephen D. Litwin, Assistant Professor of Medicine
 Luther B. Lowe, Jr., Clinical Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Nicholas T. Macris, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Mark R. Marciano, Clinical Assistant Professor of Medicine
 John Patrick McCann, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 George A. McLemore, Jr., Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 David W. Molander, Clinical Assistant Professor of Medicine
 Willibald Nagler, Assistant Professor of Medicine
 Eladio Nunez, Assistant Professor of Physiology in Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Manuel Ochoa, Jr., Assistant Professor of Medicine
 Herbert F. Oettgen, Assistant Professor of Medicine
 Francis S. Perrone, Clinical Assistant Professor of Medicine
 Aurelia Potor, Clinical Assistant Professor of Medicine
 John Prunier, Clinical Assistant Professor of Medicine
 Seymour H. Rinzler, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Edmund O. Rothschild, Clinical Assistant Professor of Medicine
 Walter Rubin, Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Leonard H. Schuyler, Clinical Assistant Professor of Medicine
 Ernest Schwartz, Clinical Assistant Professor of Medicine
 Frank A. Seixas, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine
 Edward M. Shepard, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 Harry A. Sinclair, Clinical Assistant Professor of Medicine
 James P. Smith, Assistant Professor of Medicine
 John Kelly Smith, Assistant Professor of Medicine
 William Boaz Stason, Assistant Professor of Medicine
 Peter H. Stern, Clinical Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Louis J. Vorhaus II, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine

Carl Wierum, Clinical Assistant Professor of Medicine
 Florence A. Wilson, Clinical Assistant Professor of Medicine
 Sidney J. Winawer, Assistant Professor of Medicine
 A. Lee Winston, Clinical Assistant Professor of Medicine
 Samuel D. J. Yeh, Assistant Professor of Medicine
 Charles W. Young, Assistant Professor of Medicine

Instructors:

Robert S. Ascheim
 Bernard Diamant
 Monroe B. Dowling
 Alexandra Dimich
 Lewis M. Drusin
 George A. Falk
 Sidney J. Fillmore
 Joseph A. Frascino, Jr.

Timothy Gee
 Michael J. Goldstein
 Harvey Klein
 Susan Kline
 Charles Krone
 Premila Rathnam
 (in biochemistry)
 Lynn H. Ratner

Ellen Scheiner
 Raymond L. Sherman
 Charles R. Steinberg
 Robert J. Timberger
 Alice Ullmann
 (in social work)
 Allan Yagoda

Clinical Instructors:

Ralph A. Baer
 James S. Bernstein
 Alan A. Bloom
 Morton Blum
 Samuel H. Brethwaite
 Vincent A. Cipollaro
 Robert L. Collier
 Alan H. Covey
 C. Pinckney Deal, Jr.
 Edgar J. Desser
 Adrian Edwards
 Alvin N. Ehrlich
 Ernest R. Esakof
 Edwin Ettinger
 David Gluck
 Margery Golden

Charles H. Goodsell
 Roscoe B. Guy
 Ann Cathleen Hill
 Helene Holtz
 Thomas P. Jernigan
 Arthur Karanas
 Richard J. Kaufman
 Ludwig Klein
 Neil C. Klein
 Martha Larsen
 Bruce C. Levy
 Marianne Lindner
 Carlton A. MacDonald
 John F. Marchand
 Robert S. Martin
 Neva Eileen McGrath

Donald G. McKaba
 Willis A. Murphy
 Lewis M. Neporent
 Martin Nydick
 Normand E. Olivier
 Martha E. Omura
 Richard Perkins
 Raymond E. Phillips
 Sanford M. Reiss
 Charles Ressler
 Nathaniel S. Ritter
 Melvin Rubenstein
 Lawrence Scharer
 Alan G. Snart
 Edward L. Worthington
 Stanley S. Yormak

Research Associates:

Bruce E. Belshaw
 Jeanie McMillan Caffery
 Hideo Hamaguchi

Philip Holzberger
 Anthony R. Imondi
 Donald J. Noone

Yoshinaga Ohtake
 Hiroshi Tanaka
 Margaret Todd

Fellows:

Albert A. Abbey
 Karl Anderson
 Carl S. Apstein
 Diana C. Argyros
 Sumner Auerbach
 Martin Barandes
 Charles R. Beamon
 James L. Bernene
 Robert M. Carey
 Lars L. Cederquist
 Judith A. Chown
 James I. Cleeman
 Morton Coleman
 Lois J. Copeland
 Anthony G. Coscia
 Frank G. deFuria
 Dennis L. DeSilvey
 Howard B. Dickler
 Joseph C. Dreyfus III
 Charles O. Elson II

Francis A. Ennis
 Robert L. Erickson
 Theodore Failmezger
 Alan O. Feingold
 John E. Feldmann
 Niall D. C. Finlayson
 Louis S. Fishman
 Joseph C. Fratantoni
 Beverly R. Friedell
 Ronald B. Garren
 David L. Geffner
 Joseph P. Glaser
 Lawrence E. Glassberg
 Richard Gmeiner
 David Golden
 David W. Gordon
 Jeffrey R. Granett
 Edward Grossman
 Wolfgang C. Hallauer
 Yashar Hirshaut

Michael L. Hoffman
 Teng-Lung Hsu
 Jerald Jackrel
 Eric A. Jaffe
 Martin F. Kagnoff
 Seymour Katz
 William F. Keane
 Martin S. Klein
 Herbert Kornfeld
 James B. Klint
 Robert C. Kurtz
 David C. Levy
 Gerhard Leyendecker
 Philip Liebson
 Sonia D. Lindo
 Kenneth J. Lippman
 Bruce Marmor
 Bento Mascarenhas
 Stuart M. Miller
 Robert B. Millman

Jerry R. Mitchell
John B. Morrison
Vellore T. Padmanabhan
David L. Pearle
Carl M. Pinsky
Martin J. Raff
Lillian M. Reich
Italo Ricciardi
Eli B. Richman
Philip A. Salem
Rabin M. Sarda
Alan L. Saroff

George P. Sartiano
Robert A. Schaefer
Stephen S. Scheidt
Harris Schoenfeld
Howard S. Schwartz
Paul C. Schwartz
Jurgen Spona
Gregory F. Sullivan
L. Germain Trempe
Frank J. Troncale
Earl Franklin Tulloch, Jr.
Thomas Tuttle

Vincent P. Vinciguerra
Robert L. Walton
Jack Waxman
Babette Weksler
Francis M. Weld
Rodger Winn
John C. Wolfe
Michael J. Wolk
Judith Woodruff
Lowell Young
Robert F. Zager

Research Fellows:

Mildred Goldberg

Jerome Meyer

Lecturers:

William G. C. Munroe

Robert L. Yaeger

The program of the Department of Medicine is based on a number of premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career; (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at a laboratory or clinical level; (3) The limitation of medical care is best exemplified by the demands and responsibilities of medical care.

It is evident that a large number of options are open to those pursuing a career in medicine, a diversity which includes laboratory, clinical, and administrative areas, as well as the specialty, etc. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities, and needs. There is no preconceived image of an ideal graduate except that he be competent and content in his career choice, and that he be sufficiently well-prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow him thoughtfully to explore and evaluate career possibilities. The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concepts developed in the basic sciences. This approach to the interpretation of symptoms, signs, and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value.

The depth to which each student pursues the pathophysiologic approach will vary from a study of the factors responsible for illness in a single patient, to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the Department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through his experiences, the student will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

Second Year

Instruction begins in the last trimester and consists of four coordinated courses.

90 MICROBIOLOGY

PHYSICAL DIAGNOSIS. The methods of physical examination and history-taking are taught in lectures and demonstrations which utilize audiovisual aids. In addition, students in small groups further develop their skills in clinical examination under the direct supervision of a tutor.

INTRODUCTORY MEDICINE. A series of lectures which emphasize the pathophysiology of commonly observed disorders is given. Topics, such as anemia, shock, and fever, are selected for their value in elaborating fundamental principles pertinent to many diseases.

CLINICAL PATHOLOGY. The student is instructed in the techniques of commonly used laboratory procedures to examine body fluids and excretions. Where applicable, the procedures are correlated with concurrent lectures and discussions in Introductory Medicine. The student is expected not only to acquire technical skill but also to acquire an appreciation of normal variations and the limitations and risks of various procedures.

NEUROLOGY. The techniques of the neurologic examination are presented in lectures and by patient examination. This study of the nervous system stresses the recognition and interpretation of signs and symptoms in pathophysiologic terms.

Third Year

Each student is assigned to the Medical Service of the New York Hospital for a period of eleven weeks. He is an integral member of a medical team that is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records his findings. His results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. He actively participates in the continued care of the patient in part to verify or alter his initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by lectures and conferences especially scheduled for the student and by the large number of conferences and seminars regularly held by the Department.

A separate four-week clerkship on the Neurology Service of the New York Hospital provides additional training in the diagnosis of diseases of the nervous system.

Fourth Year

The Department offers a comprehensive elective program that includes participation in laboratory or clinical research, or if desired, further opportunities for patient care. A detailed list of these courses may be found in the *Catalogue of Electives*.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman

Donald W. Mackenzie, Associate Professor of Microbiology

William M. O'Leary, Associate Professor of Microbiology

Robert W. Dickerman, Assistant Professor of Microbiology
 Michael J. Lyons, Assistant Professor of Microbiology
 Elena I. Ottolenghi, Assistant Professor of Microbiology
 Dieter H. Sussdorf, Assistant Professor of Microbiology

Assistants:

Jill M. Adler
 Fran Auerbach
 Peter B. Jahrling

Laura D. Kramer
 Neal A. Machtiger
 Anne W. Tax

Elizabeth Wilk
 Marion M. Zatz

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, a limited number of opportunities are available in laboratories of the Department of Microbiology under guidance of individual faculty. To provide time for this research, the student will be excused from presenting a seminar and preparing a term paper, and from certain laboratory sessions selected by an adviser.

Elective Courses

MICROBIOLOGY SEMINAR. Scheduled biweekly. Topics in microbiology and infectious diseases are presented in depth by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

GRADUATE COURSES. Given during the eleven-week period corresponding to the third trimester of the medical school curriculum. Lectures are open to all interested persons. Laboratory sessions are generally limited to students taking the course for credit.

MICROBIAL CHEMISTRY AND PHYSIOLOGY. Yearly. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physiochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radio-active metabolites. Minimum prerequisites for credit are: general micro-

biology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

ADVANCED IMMUNOLOGY. Every second or third year. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody reactions. Minimum prerequisites for credit are introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable. Dr. Sussdorf.

ADVANCED VIROLOGY. Every second or third year. In lectures and laboratory sessions, modern concepts and techniques of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Dr. Scherer.

MICROBIAL GENETICS. Every second or third year. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Emphasis is placed on those basic concepts of genetics which have been elucidated by the study of microbial systems. Laboratory experiments are designed to demonstrate some of the mechanisms of genetic recombination among microorganisms. Minimum prerequisites for credit are general microbiology and at least one semester (or its equivalent) of biochemistry. A course in general genetics is desirable but not required.

GENERAL MICROBIOLOGY is offered by the personnel of the Field of Microbiology at the Medical College and the Sloan-Kettering Division. It is intended to provide a wide-ranging general knowledge of the subject, for students minoring in microbiology and for nonminors who want a background in the subject. It is not primarily intended for students majoring in the subject who already have an extensive background from undergraduate work. Two-hour lectures are given weekly during both semesters. Aspects of microbiology covered include fundamental procedures, microbial growth and physiology, genetics, immunology and serology, virology, plant and animal pathogens, and applied microbiology. Auditors from all fields and divisions are welcome.

Courses in arthropod-borne virology and related ecology and epidemiology follow.

1. Principles of arthropod-borne virology
2. Entomology in relation to arthropod-borne virology
3. Ornithology in relation to arthropod-borne virology
4. Mammalogy in relation to arthropod-borne virology
5. Human and veterinary diseases caused by arthropod-borne viruses

Course 1 is given at Cornell University Medical College usually during late June and early July, and courses 2-5 at field laboratory sites in Mexico and Central America during late July and August. Course 1 and one or two others are offered each summer. The faculty are from Cornell and collaborating institutions in Mexico and Central America. Each course follows a syllabus

and consists of literature review and analysis at Cornell University Medical College and other New York libraries, including the American Museum of Natural History, and seminars and practical experience at the field laboratory. Classes are limited to six. The following students are eligible. *Cornell University—New York campus*: graduate students majoring or minoring in microbiology, postdoctoral fellows in microbiology, medical students with special interest. *Cornell University—Ithaca campus*: graduate students majoring in entomology or fields of vertebrate zoology, veterinary students with special interest, undergraduate students beyond third year with special interest and sufficient biology background. *Other universities or research institutions*: same as at Cornell University provided spaces are available.

FOURTH YEAR ELECTIVE OPTIONS. A variety of activities in study, research and teaching are available to fourth-year students during their elective program of study. Included are:

Micro 201	Teaching in Microbiology	Dr. William F. Scherer
Micro 202	Research in Microbiology	The Staff
Micro 203	Laboratory Diagnostic Microbiology	Dr. William F. Scherer
Micro 204	Advanced Immunology	Dr. Dieter H. Sussdorf
Micro 205	Microbiology Seminar	
Micro 206	Microbial Chemistry and Physiology	Dr. William M. O'Leary

For detailed descriptions of these options, the student is referred to the *Catalogue of Electives*.

Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical college curriculum. During this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of the New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year under the microbiology fellowship can be listed on a curriculum *vita*, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

NEUROLOGY

Fred Plum, Anne Parrish Titzell Professor of Neurology, Chairman

Henry S. Dunning, Clinical Professor of Neurology

Fletcher H. McDowell, Professor of Neurology

Thomas Guthrie, Clinical Associate Professor of Neurology

Gerald H. Klingon, Clinical Associate Professor of Neurology

Henn Kutt, Associate Professor of Neurology

Paul R. McHugh, Associate Professor of Neurology

Jerome B. Posner, Associate Professor of Neurology

Donald J. Reis, Associate Professor of Neurology

Walter A. Camp, Clinical Assistant Professor of Neurology

John E. Lee, Clinical Assistant Professor of Neurology

Sidney J. Louis, Clinical Assistant Professor of Neurology

Mitsuhiko Miura, Assistant Professor of Neurology

Hart DeC. Peterson, Assistant Professor of Neurology

William R. Shapiro, Assistant Professor of Neurology

Instructors:

Gary Birnbaum

Robert W. Brennan

Edward S. Emery

Richard Sweet

Claude G. Wasterlain

Clinical Instructors:

Richard R. Carruthers

Lewis N. Travis

Research Associates:

Judith Auderith

John Newsom-Davis

Zdenka Strachova

Fellows:

John J. Caronna

Raymond H. Coll

James N. Davis

Sami Harik

Mark S. Horwich

Barry E. Levin

Madelyn Olson

Frank Petito

Richard W. Price

Kurt Sligar

The Department of Neurology has two goals in teaching students. One is to have them learn diagnosis and treatment by gaining a thorough knowledge of the specific physiology and biochemistry of the major neurological diseases. The other is to transmit some of our beginning understandings of the way the brain functions as an adaptive organ regulating both man's internal milieu and his outward behavior. A few clinical-physiological demonstrations are conducted in the first year, but formal teaching begins in the second year and continues thereafter.

Second Year

An introductory course in neurological diagnosis is given in the third term, closely linked to the general physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and of abnormal signs and symptoms. There are weekly bedside experiences with the students in pairs examining patients with neurological disease under an instructor's guidance.

Third Year

A one-month clinical clerkship is spent on the neurological pavilion of either the New York Hospital or the Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of patients, under the close supervision of house staff and tutors. Extensive reading is encouraged, both to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems where current research is making important contributions. Daily seminars in psychiatry continue throughout the clerkship, reinforcing in the student's mind the close relationships between psychological disorders and brain dysfunction.

Elective Experiences

A variety of electives in either clinical work or laboratory research are available to fourth-year students. Dr. McHugh provides an advanced seminar in behavioral topics; Dr. Plum gives the same on general neurological subjects. In-patients clerkships are available for whole-time work. Dr. McDowell provides a varied out-patient elective which guarantees the student a contact with almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

OBSTETRICS AND GYNECOLOGY

Fritz Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman
 Thomas F. Dillon, Clinical Professor of Obstetrics and Gynecology
 Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology
 Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology
 Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology

Carl G. Beling, Associate Professor of Endocrinology in Obstetrics and Gynecology
 Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology
 Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology
 E. William Davis, Jr., Clinical Associate Professor of Obstetrics and Gynecology
 Walter L. Freedman, Clinical Associate Professor of Obstetrics and Gynecology
 Hortense M. Gandy, Associate Professor of Endocrinology in Obstetrics and Gynecology
 William P. Given, Clinical Associate Professor of Obstetrics and Gynecology
 Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology
 Robert L. Knapp, Clinical Associate Professor of Obstetrics and Gynecology
 Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology
 John L. Lewis, Jr., Associate Professor of Obstetrics and Gynecology
 Stewart L. Marcus, Associate Professor of Obstetrics and Gynecology
 Melville A. Platt, Clinical Associate Professor of Obstetrics and Gynecology
 Richard A. Ruskin, Clinical Associate Professor of Obstetrics and Gynecology
 Samuel F. Ryan, Clinical Associate Professor of Obstetrics and Gynecology
 George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology
 William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology
 Howard J. Tatum, Clinical Associate Professor of Obstetrics and Gynecology
 Robert E. Wieche, Clinical Associate Professor of Obstetrics and Gynecology

Hugh R. K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology
 Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology
 Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology

Hector M. Cabot, Assistant Professor of Physiology in Obstetrics and Gynecology
 John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology
 Richard F. Hnat, Assistant Professor of Obstetrics and Gynecology
 Richard P. Karoll, Assistant Professor of Obstetrics and Gynecology
 Leon I. Mann, Assistant Professor of Obstetrics and Gynecology
 Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Irwin R. Merkat, Assistant Professor of Obstetrics and Gynecology
 Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology
 Gideon G. Panter, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology
 Abraham Risk, Clinical Assistant Professor of Obstetrics and Gynecology
 Selma Silagi, Assistant Professor of Genetics in Obstetrics and Gynecology
 Frederick Silverman, Clinical Assistant Professor of Obstetrics and Gynecology
 E. Thomas Steadman, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Joseph E. Ringland

William H. Robischon

Clinical Instructors:

Naef K. Basile

John F. Dwyer

Myles C. Morrison

Charles H. Bippart

Enrique C. Gadow

Virginia K. Pierce

Jerome H. Brander

Robert Livingston

William D. Walden

Lars L. Cederqvist

Robert Melnick

Virginia Werden

Research Associates:

Anna-Riitta Fuchs

George R. Wilson

Research Fellows:

Weiyu Chen

Douglas M. Saunders

Antonio C. V. Lopes

Karri K. Wichmann

Shizuo Saito

Fellows:

Paul E. Bates

James B. Haddock

Arthur G. Shapiro

Richard L. Berkowitz

Robert E. Kaye

G. Millard Simmons

Jerald D. Buckley

Niels H. Lauersen

Joe Leigh Simpson, Jr.

Arthur F. Chung

Robert S. Marcus

Stephen Wolanske

Richard J. Derman

Jennifer R. Niebyl

Frank J. Zlatnik

James R. Farina

Richard A. Niles

Gizella Zoneraich

Michael T. Gyves

Frederick W. Schweizer

First Year

INTRODUCTION TO BIOLOGY OF HUMAN REPRODUCTION. During the last trimester, a series of eleven sessions is held for the entire first-year class as an introduction to the biology of human reproduction. The subjects include a review of reproductive physiology in the male and female, endocrinology of pregnancy, fetology, male and female infertility, family planning, and world population problems.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGY EXAMINATION. During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions

involving instruction in pelvic examination are given to groups of four students six days weekly. Four hours.

At the end of the last trimester, a ten-hour series of lectures is given on basic introduction to clinical obstetrics and gynecology. These will cover normal and pathological menstrual function and obstetrical principles and thus serve as a background for the third-year course in practical obstetrics and gynecology.

A limited number of students will be accepted by individual arrangement for summer work on research problems, especially in Reproductive Physiology.

Third Year

INTRODUCTION TO PRACTICAL OBSTETRICS AND GYNECOLOGY. Combines theoretical instruction with practical work in Obstetrics and Gynecology. Each student will study in the Lying-In-Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the genital organs.

During the remainder of the period, the student will act as a clinical assistant in the obstetrical and gynecological departments. This includes activities in clinics and in the labor and delivery suite. The student will participate in the prenatal care of patients and attend them in labor and delivery. Small seminars are held during this time to supplement the didactic instruction. A conference is conducted each morning from 9 to 10 o'clock for those students assigned to the delivery floor.

Concomitant with this program, all students will attend the following subcourses:

COURSE I: OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Mondays, 9 A.M. to 12 P.M.

COURSE II: NEOPLASTIC DISEASES. Instruction in and discussion of malignant neoplastic disease and its early recognition; the basic concepts of radiation therapy of malignant disease in the female generative tract. Mondays, 1:30 to 3:30 P.M.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays, from 4 to 5:30 P.M. Rounds on Fridays, from 11:30 A.M. to 1 P.M. Symposia and instructive case reports are presented with student participation.

SEMINARS IN REPRODUCTIVE PHYSIOLOGY. Periodic seminars embracing current aspects of the basic science as applied to obstetrics and gynecology are held once a month.

Fourth Year

A full program of fourth year electives is offered in the department, including advanced clinical training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in on-going laboratory research. These electives are listed and described in detail in the *Catalogue of Electives*.

OPHTHALMOLOGY

Donald M. Shafer, Clinical Professor of Ophthalmology, Acting Chairman
Edward A. Dunlap, Clinical Professor of Ophthalmology

Dan M. Gordon, Clinical Associate Professor of Ophthalmology

Stuart I. Brown, Clinical Assistant Professor of Ophthalmology
Jerry H. Jacobson, Clinical Assistant Professor of Ophthalmology
Harvey A. Lincoff, Clinical Assistant Professor of Ophthalmology
Walter L. Peretz, Clinical Assistant Professor of Ophthalmology
Stuart S. Snyder, Clinical Assistant Professor of Ophthalmology

Instructors:

Michael Dunn

Mark Lieberman

Clinical Instructors:

Elizabeth F. Constantine

Alfred J. Nadel

Irene de Llovera

Richard H. Raskind

Alfred E. Mamelok

Philip H. Zweifach

Research Fellows:

Richard Geiser

Kazuo Kawaski

Yutaka Tsuchida

Assistant:

Stephanie Sanfilippo

Fellows:

Jerome S. Berkowitz

Michael D. McCusker

Thomas A. Poole

Richard M. Hook

Craig A. Mehlau

Herbert E. Wasserman

Instruction in ophthalmology begins as part of physical-diagnosis instruction in the third trimester of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

During the third year the class is divided into six groups which participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology, with the entire series rounding out the most frequent ophthalmic pathologic entities.

Two fourth-year students per module can participate in the elective period. During their modules they examine eyes of patients hospitalized for surgery and review the cases with attending ophthalmologists. Then the student observes the actual surgery and follows through with postoperative care and discussions with the resident staff. During their elective the student can also observe in the various ophthalmic research units. Each Thursday the student attends teaching rounds with the resident and attending staff presenting interesting and problem cases for detailed review and discussion.

OTORHINOLARYNGOLOGY

James A. Moore, Professor of Otorhinolaryngology, Acting Chairman

James M. Holman, Clinical Associate Professor of Otorhinolaryngology
George C. Mueller, Clinical Associate Professor of Otorhinolaryngology
John R. Williams, Clinical Associate Professor of Otorhinolaryngology

John F. Struve, Clinical Assistant Professor of Otorhinolaryngology

Instructors:

Kenneth F. Mattucci Andrew Pichler

Clinical Instructors:

Frank W. Farrell Mary H. Markham John H. Seward
Suzanne Howe David R. McKee

Fellows:

Stephen R. Geller Petar Jovanovic Robert W. Selfe, Jr.

SECOND YEAR. Instruction begins in the third term of the second year. Four sessions of 1½ hours each are provided in otorhinolaryngologic problems, as part of the course in physical diagnosis. There are approximately twenty students in each of these four instructional periods.

THIRD YEAR. In the third year curriculum, seven ½-hour lectures in otorhinolaryngology are given on Wednesday mornings. They are given to the entire third-year class by the Department Chairman and the Associate Professors.

Each quarter of the third-year class spends from seven to eight weeks in the otorhinolaryngology out-patient clinic. These sessions are held on Monday afternoons from 1:00 P.M. to 4:00 P.M. In the out-patient clinic, the students gain a broad experience with patients who are considered for surgical therapy. The students work up the patients, taking full histories and physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending otorhinolaryngologist. The differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student, in order that the results of the diagnostic procedure and clinical course may be observed firsthand and definitive therapy decided upon in consultation with an otorhinolaryngology staff member.

FOURTH YEAR. Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of eight weeks or sixteen weeks. Full-time attendance is desirable; however, half-time attendance may be arranged at the discretion of the department head. During the clerkship the student's time is divided between duty on the ward, in the otorhinolaryngology out-patient clinic, and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff. The student also has the opportunity to observe various otorhinolaryngologic operating procedures in the operating room. He also attends the weekly and monthly conferences. The advisers to students planning this fourth-year elective are Dr. James A. Moore and Dr. James M. Holman.

PATHOLOGY

John T. Ellis, Professor of Pathology, Chairman
Milton Helpert, Visiting Professor of Pathology
Aaron Kellner, Clinical Professor of Pathology
John G. Kidd, Professor of Pathology
Elmer E. Kramer, Clinical Professor of Pathology
Robert C. Mellors, Professor of Pathology
George E. Murphy, Professor of Pathology

M. Renate Dische, Clinical Associate Professor of Pathology
 Robert W. McDivitt, Associate Professor of Pathology
 Alfred M. Prince, Clinical Associate Professor of Pathology
 Charles A. Santos-Buch, Associate Professor of Pathology
 John E. Seybolt, Clinical Associate Professor of Pathology
 Leslie H. Sobin, Associate Professor of Pathology
 Cyril Solomon, Clinical Associate Professor of Pathology

Carl G. Becker, Assistant Professor of Pathology*
 Peter G. Bullough, Assistant Professor of Pathology
 Arthur S. Carlson, Clinical Assistant Professor of Pathology
 Margaret H. S. Clements, Assistant Professor of Pathology
 George F. Gray, Assistant Professor of Pathology
 C. Richard Minick, Assistant Professor of Pathology
 Robert S. Porro, Assistant Professor of Pathology
 Theodore Robertson, Clinical Assistant Professor of Pathology
 Carolyn W. Watson, Clinical Assistant Professor of Pathology

Instructors:

Daniel R. Alonso
 Janet A. Mouradian

Gurdip S. Sidhu
 Eun-Sook Cho

Fellows:

Bonita L. Bachl
 Edilson G. Brito
 Charles E. Connolly
 Jack H. Paldi

Hydow Park
 Carol K. Petito
 Robert F. Reiss

Francisco A. Roters
 Chik-kwun Tang
 Carl F. Wolf

Visiting Fellow:

Andrew H. Littell

Assistant:

Charlotte Street

* On leave of absence.

General Pathology

FACILITIES. The Department of Pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, a very considerable amount of constantly changing gross material is available for study by the student.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair; it then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Ellis and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman
Paul F. De Gara, Clinical Professor of Pediatrics (Allergy)
Mary Allen Engle, Professor of Pediatrics
Milton I. Levine, Clinical Professor of Pediatrics

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics
Peter A. McF. Auld, Associate Professor of Pediatrics
Charles H. Bauer, Clinical Associate Professor of Pediatrics
Samuel R. Berenberg, Clinical Associate Professor of Pediatrics
Nathan Epstein, Clinical Associate Professor of Pediatrics
John E. Franklin, Clinical Associate Professor of Pediatrics
James L. German III, Clinical Associate Professor of Pediatrics (Human Genetics)
Martin J. Glynn, Clinical Associate Professor of Pediatrics
Henry P. Goldberg, Clinical Associate Professor of Pediatrics
Herman Grossman, Associate Professor of Radiology in Pediatrics
James Q. Haralambie, Clinical Associate Professor of Pediatrics
Edmund N. Joyner III, Clinical Associate Professor of Pediatrics
Philip Lankowsky, Associate Professor of Pediatrics
Aaron R. Levin, Associate Professor of Pediatrics
Florence N. Marshall, Clinical Associate Professor of Pediatrics
Robert G. McGovern, Clinical Associate Professor of Pediatrics
Virginia C. Mitty, Clinical Associate Professor of Pediatrics
M. Lois Murphy, Associate Professor of Pediatrics
Bertrand L. New, Clinical Associate Professor of Psychiatry in Pediatrics
Maria I. New, Associate Professor of Pediatrics
S. Frank Redo, Clinical Associate Professor of Surgery in Pediatrics
John C. Ribble, Associate Professor of Pediatrics

102 PEDIATRICS

Lee Salk, Clinical Associate Professor of Psychology in Pediatrics
 Maxwell Stillerman, Clinical Associate Professor of Pediatrics
 Myron Winick, Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
 Richard R. Bass, Clinical Assistant Professor of Pediatrics
 Otto E. Billo, Clinical Assistant Professor of Pediatrics
 Jo Anne Brasel, Assistant Professor of Pediatrics
 Mary C. Buchanan, Clinical Assistant Professor of Pediatrics
 Virginia A. Canale, Assistant Professor of Pediatrics
 Walter T. Carpenter, Clinical Assistant Professor of Pediatrics
 Benedict S. Caterinicchio, Clinical Assistant Professor of Pediatrics
 Leon I. Charash, Clinical Assistant Professor of Pediatrics
 Alan P. DeMayo, Clinical Assistant Professor of Pediatrics
 Duane L. Dowell, Clinical Assistant Professor of Pediatrics
 Kathryn H. Ehlers, Assistant Professor of Pediatrics
 Doris K. Goldberg, Clinical Assistant Professor of Pediatrics
 Margaret T. Grossi, Assistant Professor of Pediatrics
 Margaret C. Heagarty, Assistant Professor of Pediatrics
 Margaret W. Hilgartner, Assistant Professor of Pediatrics
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
 Lenore S. Levine, Clinical Assistant Professor of Pediatrics
 Wan Ngo Lim, Assistant Professor of Pediatrics
 Luther B. Lowe, Jr., Assistant Professor of Pediatrics in Dermatology
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Karl Neumann, Clinical Assistant Professor of Pediatrics
 Rebecca F. Notterman, Clinical Assistant Professor of Pediatrics
 Hart deC. Peterson, Assistant Professor of Neurology in Pediatrics
 Olive E. Pitkin, Clinical Assistant Professor in Pediatrics
 Virginia E. Pomeranz, Clinical Assistant Professor in Pediatrics
 Sirgay Sanger, Assistant Professor of Psychiatry in Pediatrics
 Alfred S. Scherzer, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 William T. Seed, Clinical Assistant Professor of Pediatrics
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry in Pediatrics
 Madoka Shibuya, Assistant Professor of Pediatrics
 David I. Smith, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

G. Gail Gardner	Michael J. McCarthy	Norma W. Sternberg
Lawrence Helson	Gerald W. Spielman	Lisa Tallal

Clinical Instructors:

Marvin Boris	Theodore M. Ginsberg	Reuben H. Reiman
Renee M. Brilliant	Phyllis H. Koteen	Melvin S. Rosh
Joseph H. DiLeo	Frank N. Medici	Jean-Jacques Saranga
Philip W. H. Eskes	Alberto Lacoious-Petrucelli	Beatrice S. Slater
Gilbert L. Fuld	Irwin Rappaport	Josef Soloway
Diane B. Gareen		

Research Associates:

Belle Granich	Carlos A. Tori
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Fellows:

Beverly J. Barrett	Aaron Blum	Maria Dufau
Richard M. Bauer	William J. Deely	Judith W. Elliott
Sharon F. Berkowitz	Mark Degnan	Mira Frand

Charles D. Franzblau
 Andrea C. V. Giardina
 Patricia-Jane V. Giardina
 Angela C. Gilladoga
 William L. Greenberg
 Kushalata R. Jayakar
 Richard G. Judelson
 Carol L. Kamm

Joel M. Karlin
 Robert J. Karp
 Alan J. Korostoff
 Wen-hsiung Lu
 Geoffrey A. MacPherson
 Lillian C. McMahon
 Gregor Prindull

Israel I. Rayman
 Elliott J. Siegal
 Peter G. Steinherz
 Mary W. Tsai
 Tribhawan S. Vats
 Joyce G. Wolf
 Christine A. Zalesky

Clinical Fellow:

Gilda Morillo-Cucci

Lecturers:

Virginia Apgar (Teratology)
 David M. Levy (Child Psychiatry)

THIRD YEAR. Thirty-five lectures throughout the school year present the subject of normal growth and development in infants and children, principles of genetics and nutrition, problems of the newborn infant, and disease in the pediatric age group. Students serve as clinical clerks on the pediatric pavilions, nurseries, and pediatric outpatient department of the New York Hospital. They are assigned to examine newly admitted patients in rotation and gain experience in diagnosis and management of sick children who require hospital residence, as well as children followed in the various outpatient clinics. Night and weekend rotations are scheduled on the pediatric and emergency pavilions. Special rounds and seminar are arranged for the clinical clerks; they also attend regular departmental conferences and rounds.

FOURTH YEAR. The students' activities are entirely elective. The department offers a variety of clinical pediatrics electives encompassing general and subspecialty clinic outpatient activities at the New York Hospital; and combined inpatient and outpatient activities at the New York Hospital, Hospital for Special Surgery, and Memorial Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman
 Walter Modell, Professor of Pharmacology.
 John J. Burns, Visiting Professor of Pharmacology

Amir Askari, Associate Professor of Pharmacology
 Raymond W. Houde, Associate Professor of Pharmacology

Walter Y. Chan, Assistant Professor of Pharmacology
 Arthur H. Hayes, Jr., Assistant Professor of Pharmacology
 Charles E. Inturrisi, Assistant Professor of Pharmacology
 Roberto Levi, Assistant Professor of Pharmacology
 Michiko Okamoto, Assistant Professor of Pharmacology
 Alan Van Poznak, Assistant Professor of Pharmacology

Instructor:

Yung Jai Sohn

Research Associates:

Thomas Baker

Srinivas Rao

Research Fellows:

Bart Longnecker

Carlos Widmer

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systematically, serve to illustrate several mechanisms and parameters of drug action. Therapeutic applications are considered only insofar as they illustrate principles of pharmacology or drug hazards. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify, through research, some particular aspect of drug action. These activities are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of one-hour seminars are offered twice weekly. In these, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a reexamination of the pharmacologic rationale for a particular therapy. Also students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate.

This course is offered during each module but will be given only if there are at least six students registered.

CLINICAL PHARMACOLOGY. Electives offer the student an opportunity to become acquainted with problems of experimental design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs, and (b) the study of cardiovascular drugs, especially antiarrhythmic agents. Recommended time: one to two modules, half time.

MEDICAL EDITING. An experience is offered for one to three students to join the activities of the editorial office of *Clinical Pharmacology and Therapeutics*, an official publication of the American Society for Pharmacology and Experimental Therapeutics. Students will participate in all aspects of the handling of manuscripts from their receipt to final disposition, including selection of referees, exchanges between reviewer and the editor, exchanges between the editor and author regarding suggestions for modifications made by referees, and the final editing processes involved in readying the manuscript for publication. Recommended time: two modules, part-time.

RESEARCH. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. For detailed description of opportunities consult the *Catalogue of Electives*. In brief, special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system, and the biochemical aspects of pharmacology. Recommended time: to be arranged.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman

Roger L. Greif, Professor of Physiology

Erich E. Windhager, Professor of Physiology

Bernice Grafstein, Associate Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology

Sulamita Balagura, Assistant Professor of Physiology

Colin Fell, Assistant Professor of Physiology

Lou Ann Pilkington, Assistant Professor of Physiology

Research Fellows:

Takis Anagnostopoulos

Tom C. Welbourne

Assistant:

Raymond A. Peckauskas

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having on the fourth floor of its building the Graham Lusk Library of Physiology, a gift from the late Professor of Physiology Graham Lusk. The library includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM. Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days each week. 187 hours.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lectures.

ELECTIVE COURSES. A seminar course in topics in biophysics and one in fluid and electrolyte balance are offered to selected student during their second-year elective time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and four-year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.

2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Barklie McKee Henry Professor of Psychiatry, Chairman
 Sanford Goldstone, Professor of Psychology in Psychiatry
 Francis J. Hamilton, Clinical Professor of Psychiatry
 William N. Schoenfeld, Clinical Professor of Psychology in Psychiatry
 Richard A. Silberstein, Visiting Professor of Psychiatry
 Otto A. Will, Jr., Clinical Professor of Psychiatry

Eric T. Carlson, Clinical Associate Professor of Psychiatry
 James L. Curtis, Associate Professor of Psychiatry
 Helen E. Daniells, Clinical Associate Professor of Psychiatry
 Bernard Fisher, Clinical Associate Professor of Psychology in Psychiatry
 Frederic F. Flach, Clinical Associate Professor of Psychiatry
 Donald M. Hamilton, Clinical Associate Professor of Psychiatry
 Lawrence J. Hatterer, Clinical Associate Professor of Psychiatry
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine in Psychiatry
 Ari Kiev, Clinical Associate Professor of Psychiatry (Social Psychiatry)
 Seymour G. Klebanoff, Clinical Associate Professor of Psychology in Psychiatry
 Richard N. Kohl, Associate Professor of Psychiatry
 Ludwig G. Laufer, Clinical Associate Professor of Psychiatry
 Alfred B. Lewis, Jr., Clinical Associate Professor of Psychiatry
 Edward Y. Liang, Clinical Associate Professor of Psychiatry
 James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
 Paul R. McHugh, Associate Professor of Psychiatry
 Alan A. McLean, Clinical Associate Professor of Psychiatry

Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry
 Bertrand L. New, Clinical Associate Professor of Psychiatry
 Leon L. Rackow, Clinical Associate Professor of Psychiatry
 Arthur K. Shapiro, Clinical Associate Professor of Psychiatry
 Gerald P. Smith, Associate Professor of Psychiatry (Physiology)
 Peter E. Stokes, Associate Professor of Medicine in Psychiatry
 Nathaniel Warner, Clinical Associate Professor of Psychiatry
 Elliott L. Weitzman, Clinical Associate Professor of Psychiatry

Arthur A. Anderson, Jr., Clinical Assistant Professor of Psychiatry
 Jason Aronson, Clinical Assistant Professor of Psychiatry
 Harvey H. Barten, Clinical Assistant Professor of Psychiatry
 Thomas Beckett, Clinical Assistant Professor of Psychology in Psychiatry
 Sheldon Blackman, Clinical Assistant Professor of Psychology in Psychiatry
 Albert N. Browne-Mayers, Clinical Assistant Professor of Psychiatry
 M. David Clayson, Assistant Professor of Psychology in Psychiatry
 Gerald Fountain, Clinical Assistant Professor of Psychiatry
 Nicholas Freydberg, Clinical Assistant Professor of Psychology in Psychiatry
 Lionel O. Friedman, Clinical Assistant Professor of Psychiatry
 Stephen Goodyear, Clinical Assistant Professor of Psychiatry
 Nelson M. Gray, Clinical Assistant Professor of Psychiatry
 Thomas S. Harper, Clinical Assistant Professor of Psychiatry
 Irving B. Harrison, Clinical Assistant Professor of Psychiatry
 Royal J. Haskell, Jr., Clinical Assistant Professor of Psychology in Psychiatry
 Thomas F. Henley, Clinical Assistant Professor of Psychiatry
 Philip S. Herbert, Clinical Assistant Professor of Psychiatry
 Peter T. Janulis, Clinical Assistant Professor of Psychiatry
 A. Bradford Judd, Clinical Assistant Professor of Psychiatry
 Francis D. Kane, Clinical Assistant Professor of Psychiatry
 Marilyn G. Karmason, Clinical Assistant Professor of Psychiatry
 Avraam T. Kazan, Clinical Assistant Professor of Psychiatry
 M. Dorothea Kerr, Clinical Assistant Professor of Psychiatry
 Jeremy M. Kisch, Assistant Professor of Psychology in Psychiatry
 Robert G. Knight, Clinical Assistant Professor of Psychiatry
 Jerome L. Kroll, Assistant Professor of Psychiatry
 Bernard Landis, Clinical Assistant Professor of Psychology in Psychiatry
 Allison B. Landolt, Clinical Assistant Professor of Psychiatry
 Robert E. Lee, Clinical Assistant Professor of Medicine in Psychiatry
 William Longaker, Clinical Assistant Professor of Psychiatry
 Armand Löranger, Assistant Professor of Psychology in Psychiatry
 William V. Lulow, Clinical Assistant Professor of Psychiatry
 Rene C. Mastrovito, Clinical Assistant Professor of Psychiatry
 Lillian E. McGowan, Clinical Assistant Professor of Psychiatry
 John F. McGrath, Clinical Assistant Professor of Psychiatry
 William K. McKnight, Assistant Professor of Psychiatry
 Stanley T. Michael, Assistant Professor of Psychiatry
 Harry H. Moorhead, Clinical Assistant Professor of Psychiatry
 Anna J. Munster, Clinical Assistant Professor of Psychiatry
 Werner Nathan, Clinical Assistant Professor of Psychiatry
 Jane F. O'Neil, Assistant Professor of Psychiatry
 Edward L. Pinney, Jr., Clinical Assistant Professor of Psychiatry
 Jacques M. Quen, Clinical Assistant Professor of Psychiatry
 Edwin R. Ranzenhofer, Clinical Assistant Professor of Psychiatry
 Fred V. Rockwell, Clinical Assistant Professor of Psychiatry
 Richard Rutkin, Assistant Professor of Psychology in Psychiatry
 Richard M. Sallick, Assistant Professor of Psychiatry
 Sirgay Sanger, Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Edward E. Seelye, Assistant Professor of Psychiatry
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry
 Helen N. Siegrist, Assistant Professor of Social Work in Psychiatry

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David E. Sobel, Assistant Professor of Psychiatry
 James H. Spencer, Jr., Clinical Assistant Professor of Psychiatry
 Tom G. Stauffer, Clinical Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Morton L. Wadsworth, Clinical Assistant Professor of Psychiatry
 Bettina Warburg, Clinical Assistant Professor of Psychiatry
 Porter H. Warren, Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Assistant Professor of Psychiatry
 Alvin R. Yapalater, Clinical Assistant Professor of Psychiatry

Instructors:

Martin Diner	Michael J. Patton	Agop Tashchian
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Clinical Instructors:

Edward T. Adelson	Samuel V. Dunkell	Daniel J. O'Connell
Gerald A. Anderson	Stuart R. Edelson	Salvatore J. Pagliaro
E. Joanne Angelo	Simon J. Epstein	Esra S. Petursson
Joseph Arcuri	G. Renee Ferguson	Robert B. Poundstone
Ralph D. Baker	Theodore H. Finkle	Eva Rado
James E. Baxter	Maria Freile Fleetwood	Martha K. Reese
Marvin B. Blitz	Roland J. Foraste	David B. Robbins
Norman Brill	Mio Fredland	Philip S. Robbins
David E. Brown	Richard B. Gould	George Samios
James W. Brown	Daniel N. Hertz	Jack G. Schoenholtz
Robert S. Carson	David M. Hurst	George F. Simor
Remo R. Cerulli	Raymond F. Jarris	Max Spital
Edwin H. Church	Mary M. Knight	C. Neil Taylor
Howard N. Cooper	Henry J. Lefkowitz	Sylvia G. Traube
Lois B. de Alvarado	Edna A. Lerner	Kenneth F. Tucker
John R. Delaney	Arnold S. Maerov	Traer Van Allen
Mary V. DiGangi	Herbert E. McGrew	James R. Ware
Lawrence A. Downs	Sarah M. Mitchell	Louis Weinstein
Thomas L. Doyle, Jr.	Wayne A. Myers	Alden E. Whitney

Research Associates:

Mario Argandona-Yanez	Norman Dain	Thomas A. Loftus
A. Dale Console		

Research Fellows:

Hannah S. Decker	Stephen Kern	Meribeth Simpson
Milton D. Hassol		

Fellows:

Kathleen B. Barzun	Marshal F. Folstein	Herbert L. Rothman
Glen L. Bohlke	James G. Gibbs, Jr.	Charles A. Shamoian
William E. Boutelle, Jr.	Francis J. Hamilton, Jr.	Edward C. Sheppard
Arthur S. Campbell	John O. Ives	Elliot R. Singer
Jan Cooper	Rise A. Jacobson	Charles G. Smith
Suzanne C. Draghi	Avodah K. Offit	Donald B. Vogel
Douglas R. Elliott	Hyung Soon Park	Anna Zagoloff
William Elstein	Lathrop E. Roberts	

Research Assistant:

Myrtle Guy

The Department of Psychiatry offers instruction and electives during each of the four years. Understanding of the development of the normal person-

ality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student to psychiatric disorders and the methods of their examination and study. In the third year this preliminary training is utilized in the study of both in- and outpatients of the Payne Whitney Psychiatric Clinic. In addition, field trips are offered to a community mental health center, a drug addiction center, a state hospital, and the Westchester Division of the New York Hospital. In the fourth year numerous electives are offered. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies are provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 22.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION. The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. The course offers practical experience in interviewing, history taking, and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Groups of seven to eight students rotate through the in- and outpatient services of the Payne Whitney Psychiatric Clinic four days a week for four-week periods. One day per week is devoted to a field trip to other psychiatric facilities. Students examine and work up inpatients and, in addition, have the opportunity to examine outpatients. The program includes a series of lectures, seminars, case presentations, and four afternoons in the Division of Child Psychiatry.

FOURTH YEAR: ELECTIVES. During the fourth year the following electives are offered: A clinical clerkship in the psychiatric inpatient department, clinical experience in the psychiatric outpatient department, research in child psychiatry, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, and audiovisual teaching.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
William T. Ingram, Visiting Professor of Engineering in Public Health
Philip D. Marsden, Visiting Professor of Public Health

Kenneth G. Johnson, Associate Professor of Public Health

Aaron D. Chaves, Clinical Assistant Professor of Public Health
August H. Groeschel, Assistant Professor of Public Health
Ann P. Kent, Clinical Assistant Professor of Public Health
John P. Maher, Clinical Assistant Professor of Public Health
Robert M. McCune, Assistant Professor of Public Health
Philip Ollstein, Clinical Assistant Professor of Public Health
David Schottenfeld, Assistant Professor of Public Health
Katsuhiko Yano, Assistant Professor of Public Health

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Clinical Instructors:

Gladys L. Hobby

William H. Loery

Research Associates:

Thomas A. Hodgson

Rudolph B. Pruden

Julia T. Weld

Jeanne F. Magagna

Visiting Lecturer:

John C. Seed

The teaching aim of the Department of Public Health is to help increase the student's understanding of disease and its proper management by the study of those aspects that can best be perceived by the study of people in groups. This is the base for the different "way of looking at things" of the nonclinical, "public", or "community" physician who goes to the same total pool of biomedical science and technology as is used by the clinical physician, but who extracts from it quite different elements for application to the disease problems of a whole community. The existence and potentialities of this "other" way of using biomedical science and technology for the control of disease must be known and comprehended by all physicians. For all patients under these two medical influences at once—that of the clinical or personal physician and that of nonclinical or public physician. To a considerable extent the teaching of this aspect of medicine involves identification of the contemporary and emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environments. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student apply the knowledge derived from the basic medical sciences to the problems of the day and to determine possible ways the problems can be modified through either the clinical or the nonclinical systems.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: EPIDEMIOLOGY I AND II. The first course is an introduction to the study of disease and its determinants in a community. During the first part of the course, special emphasis will be placed on the design of epidemiologic studies, testing the significance of observed results by appropriate statistical means. Throughout the first trimester, each Thursday afternoon, a lecture will be given from 3-4 P.M., followed by a laboratory exercise from 4-5 P.M. Each Saturday morning from 9-10 A.M. lectures in computer science and in bioassay methodology will be given.

In the third trimester a series of lectures, given each Wednesday morning, 9-10 A.M., will be devoted to the epidemiology of *specific* infections and chronic diseases. Total hours, 44.

SECOND YEAR: PARASITOLOGY. The principal emphasis is on diseases caused by the larger parasites, which are particularly prevalent in so-called economically underdeveloped areas. The course given by Dr. B. H. Kean and his associates during the second trimester of the school year.

Dr. Kean is head of the tropical disease unit in the Department of Medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include macroscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for

the study of diseases in man—clinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Wednesday, and Friday afternoon during the latter part of the second trimester, a lecture or demonstration is presented from 2–3 P.M. and the laboratory exercises are then carried on from 3–5 P.M. Total hours, 33.

THIRD YEAR. The course is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of clear medical import which may be expected to represent major problems related to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminar and section work, 45 hours; total morning clinics, 30 hours.

FOURTH YEAR. The teaching program is centered in the Electives as listed below.

Elective Courses

EXERCISE IN PUBLIC HEALTH. Research opportunities are available to students who are interested in studying the social, economic, and other environmental determinants of disease in a community. A student can participate in on-going studies relating to the system of medical care in community or he may choose to initiate a short-term independent project. Previous student projects have included studies in infant mortality, anemia in early childhood, the effects of diet on supplementation in malnourished children, and a study of "drop-outs" from a maternity services clinic. Opportunity for students to participate in extramural projects in the United States and abroad are limited. Dr. Kenneth Johnson is the sponsor of this exercise.

BEDFORD HEALTH CENTER CLERKSHIP. The student during the course of this elective will gain experience in the operation of a large health center situated in Bedford-Stuyvesant. He will assist the health officer in his daily work by participating directly in the Center's activities. These activities will be defined by the health officer as far as possible to conform to the particular interests of the student. Dr. Kenneth Johnson and Dr. John Maher are cosponsors of this Clerkship.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
Giulio D'Aangio, Professor of Radiology
Robert S. Sherman, Clinical Professor of Radiology
Harold L. Temple, Clinical Professor of Radiology

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David V. Becker, Associate Professor of Radiology
Florence Chien Hwa-Chu, Associate Professor of Radiology
Richard Fleming, Associate Professor of Radiology
Robert H. Freiburger, Associate Professor of Radiology
Herman Grossman, Associate Professor of Radiology
Zuheir Mujahed, Clinical Associate Professor of Radiology
Nathan Poker, Clinical Associate Professor of Radiology
D. Gordon Potts, Associate Professor of Radiology
Joseph P. Whalen, Associate Professor of Radiology

Ina R. Altman, Assistant Professor of Radiology
Harold A. Baltaxe, Assistant Professor of Radiology
David G. Bragg, Assistant Professor of Radiology
F. Mitchell Cummins, Clinical Assistant Professor of Radiology
Michael Deck, Assistant Professor of Radiology
Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
Martin Edelman, Clinical Assistant Professor of Radiology
Richard Evans, Assistant Professor of Radiology (Physics)
Bernard Ghelman, Assistant Professor of Radiology
Margaret Harrison, Assistant Professor of Radiology
Basil S. Hilaris, Assistant Professor of Radiology
Seymour Hopfan, Assistant Professor of Radiology
James Hurley, Assistant Professor of Radiology
David C. Levin, Assistant Professor of Radiology
Eladio Nunez, Assistant Professor of Radiology
Raymond Pope, Assistant Professor of Radiology (Physics)
Plinio Rossi, Clinical Assistant Professor of Radiology
Samuel Seal, Assistant Professor of Radiology
Henry M. Selby, Clinical Assistant Professor of Radiology
Ruth E. Snyder, Clinical Assistant Professor of Radiology
George Stassa, Assistant Professor of Radiology
Harry L. Stein, Clinical Assistant Professor of Radiology
Robin C. Watson, Assistant Professor of Radiology
Patricia Winchester, Assistant Professor of Radiology

Instructors:

Alan Baker	Saad Hasan	Patrick O'Kelly
Stephen Balter	J. Garrett Holt	Richard C. Packert
Waltraud-Gisela Blasberg	Joseph M. Murphy	Samuel Phillips
John Cavallari	Melvin J. Myers	Gian D. Ragazzoni
Eugene Covington	William Newey	Robert M. Ryan
Peter E. Dobrowolski	Lourdes Z. Nisce	Russell Tillitt

Clinical Instructor:

Robert H. Leaming

Fellows:

Damianos Doulmas	Charles B. Grossman	James Korsten
Henry J. Fischer, Jr.	Andrew W. Haraway, Jr.	Samuel T. Lim
Peter Giustra	Hsien Wen Ju	C. Lawrence Woodruff

The teaching of radiology extends through all of the four academic years. It includes didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of disease at the regular conferences of the clinical departments, and a variety of elective courses.

During the first year, in collaboration with the Department of Anatomy, carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use

of radiographs enhance the student's understanding of anatomical details and can provide him with a clearer perspective of important anatomical relationships. In the last trimester of the first year, the Department of Radiology participates in a multidisciplinary course in radiobiology.

In the second year during the course in physical diagnosis, several hours are devoted to radiologic examination of the heart, lungs, and abdomen.

The third year student receives twenty hours of didactic lectures mainly on selected areas of roentgen diagnosis, roentgen therapy, and radiation protection.

The fourth year student has a wide range of elective subjects in diagnostic radiology, nuclear medicine, and radiation therapy that are available to him. He may select a program at the New York Hospital, Memorial Hospital or the Hospital for Special Surgery, or a program that involves all three institutions. A clinical clerkship type of elective in radiation therapy is also available at the Memorial Hospital.

A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department.

Five floors of the L Building comprise the main Radiology Department. A large diagnostic section is located in the Doctor Connie Guion Outpatient Building adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, Urology Clinic and the Payne Whitney Psychiatric Hospital.

The Firestone Radiation Therapy Center at Memorial Hospital provides the latest clinical facilities for radiation therapy as well as ample space for teaching and research. Modern and well-equipped diagnostic radiology services are also located in the Memorial Hospital and the Hospital for Special Surgery.

New diagnostic radiology research facilities are located on the Sixth and Seventh floors of the William Hale Harkness Research Building.

SURGERY

C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery, Chairman

William A. Barnes, Clinical Professor of Surgery

Göran C.H. Bauer, Professor of Surgery (Orthopedics)

Herbert Conway, Clinical Professor of Surgery (Plastic Surgery)

William Cooper, Clinical Professor of Surgery (Orthopedics)

John W. Draper, Clinical Professor of Surgery (Urology)

Cranston W. Holman, Clinical Professor of Surgery

Victor F. Marshall, Professor of Surgery (Urology)

S.W. Moore, Professor of Surgery

Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)

Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)

Albert L. Rubin, Professor of Surgery (Biochemistry)

Lee Ramsay Straub, Clinical Professor of Surgery (Orthopedics)

Björn Thorbjarnarson, Clinical Professor of Surgery

Willett F. Whitmore, Jr., Clinical Professor of Surgery (Urology)

Philip D. Wilson, Jr., Clinical Professor of Surgery (Orthopedics)

Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)

Peter Dineen, Clinical Associate Professor of Surgery

Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)

John H. Eckel, Clinical Associate Professor of Surgery

George F. Egan, Clinical Associate Professor of Surgery (Dentistry)

Henry Gans, Associate Professor of Surgery

Helena Gilder, Associate Professor of Surgery (Biochemistry)
 Edward I. Goldsmith, Clinical Associate Professor of Surgery
 Dicran Goulian, Jr., Clinical Associate Professor of Surgery (Plastic Surgery)
 Peter M. Guida, Clinical Associate Professor of Surgery
 George R. Holswade, Clinical Associate Professor of Surgery
 Allan E. Inglis, Clinical Associate Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Associate Professor of Surgery (Orthopedics)
 Richard C. Karl, Associate Professor of Surgery
 Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)
 Eugene M. Lance, Associate Professor of Surgery (Orthopedics)
 Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)
 Henry Mannix, Jr., Clinical Associate Professor of Surgery
 Robert W. McDivitt, Associate Professor of Surgery (Pathology)
 John H. McGovern, Clinical Associate Professor of Surgery (Urology)
 Laurence Miscall, Clinical Associate Professor of Surgery
 James A. Nicholas, Clinical Associate Professor of Surgery (Orthopedics)
 William F. Nickel, Jr., Clinical Associate Professor of Surgery
 Arthur J. Okinaka, Clinical Associate Professor of Surgery
 Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)
 Russell H. Patterson, Jr., Associate Professor of Surgery (Neurosurgery)
 S. Frank Redo, Clinical Associate Professor of Surgery
 Paul A. Skudder, Clinical Associate Professor of Surgery
 Reuven K. Snyderman, Clinical Associate Professor of Surgery (Plastic Surgery)
 Kurt H. Stenzel, Associate Professor of Surgery (Biochemistry)
 George E. Wantz, Clinical Associate Professor of Surgery
 John P. West, Clinical Associate Professor of Surgery
 John C. Whitsell, II, Clinical Associate Professor of Surgery

Harlan C. Amstutz, Clinical Assistant Professor of Surgery (Orthopedics)
 William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)
 Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)
 Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)
 Richard M. Bergland, Assistant Professor of Surgery (Neurosurgery)
 Jack H. Bloch, Assistant Professor of Surgery
 Paul W. Braunstein, Clinical Assistant Professor of Surgery
 George N. Cornell, Clinical Assistant Professor of Surgery
 Armand Cortese, Assistant Professor of Surgery
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)
 J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)
 Randolph M. Ferlic, Clinical Assistant Professor of Surgery*
 Harold H. Genvert, Clinical Assistant Professor of Surgery
 William R. Grafe, Jr., Assistant Professor of Surgery
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B.C. Keefer, Clinical Assistant Professor of Surgery
 John G. Keuhnelian, Clinical Assistant Professor of Surgery (Urology)
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery (Orthopedics)
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 David B. Levine, Clinical Assistant Professor of Surgery (Orthopedics)
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Charles K. McSherry, Clinical Assistant Professor of Surgery
 Edward C. Muecke, Clinical Assistant Professor of Surgery (Urology)
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)

Instructors:

James S. Bethea III
 Robert G. Carlson

Charles W. Carpenter
 Alfredo Czerniecki

Genevieve deGroot
 Robert L. Diaz

*On leave of absence to March 1.

Joseph V. Hajek
 Julian T. Hoff
 Louis R. Jordan
 Robert L. Kaster
 Tomihisa Koshino
 Walter J. Loehr
 Paul Lotke
 John L. Marshall

Terry O. Miller
 Holland V. Moore
 Georges Muheim
 Salvatore J. Pavon-Robles
 Herbert S. Perry
 Chitranjan S. Ranawat
 J. Richard Rees

Michael F. Rodi
 Thomas J. Schulz
 William S. Tunner
 N.D. Krishne Urs
 Robert S. Waldbaum
 Kurt Wieneke, Jr.
 Robert L. Wilson

Clinical Instructors:

Samuel Avnet
 Howard D. Ballensweig
 Mitchell Brice III
 Michael Browne
 William Bruton
 Anthony Camarda
 Thomas I. Carey
 Robert L. Clarke
 Edward C. Coats

Rudolph C. Dangelmajer
 Robert D. Deans
 Wade Duley
 Richard G. Eaton
 Milton Gabel
 Robert A. Goldstone
 John N. Insall
 Jerome Lawrence

Peter Marchisello
 Joseph B. Mason
 John B. Ogilvie
 Earl A. O'Neill
 Thomas D. Rizzo
 Leon Root
 David S. Speer
 Konstantin P. Veliskakis

Research Associates:

Ronald W. Gillette

Nitranjan Ranawat

Research Fellows:

Serge Dos

Nils H. Kasstrom

Jose R. Troconis

Fellows:

John M. Aronian
 Stanley E. Asnis
 John M. Aversa
 Alessandro G. Basso
 Creighton Bellinger
 Hugh C. Bredin
 Mark J. Brodkey
 Bruce E. Burnham
 Sheldon Cohen
 John W. Coleman
 Edward B. Crosby
 William P. Crutchlow
 William T. Curry
 Christopher J. Daly
 Steven A. Dressner
 Robert J. Ellis
 Michael J. Errico
 Daniel A. Goor

Floyd L. Haar
 Charles Hamlin
 Nicholas J. Herr
 Edgar H.J. Hift
 Stuart Holden
 Fredrick Jaffe
 Robert M. Kass
 Harvey Konigsberg
 Krzysztof Krawczynski
 Arnold J. Lande
 Roger H. Lofland
 John P. Lyden
 Irvine G. McQuarrie
 Robert W. Milgram
 Brian G. Miscall
 Kevin P. Morrissey
 Steven A. Muller
 William P. O'Grady

John M. Parsons
 Robert A. Pezzulich
 Robert C. Powers
 Andrew J. Presto III
 Marten W. Quadland
 Bruno Ristow
 John G. Rose
 Garry L. Smith
 Jacqueline J. Struthers
 Valavanur A. Subramanian
 John B. Thompson
 Joseph B. Twitchell
 George M. Uhran
 William R. White
 Stephen F. Winer
 Steven I. Woodrow
 Henry C. Yu
 F. Darwin Zahn

Research Assistant:

Frederick G. Sumner II

MEMORIAL HOSPITAL

Edward J. Beattie, Jr., Professor of Surgery, Chairman

William G. Cahan, Clinical Associate Professor of Surgery
 Eugene E. Clifton, Clinical Associate Professor of Surgery
 Michael R. Deddish, Clinical Associate Professor of Surgery
 Joseph H. Farrow, Clinical Associate Professor of Surgery
 Joseph G. Fortner, Clinical Associate Professor of Surgery

Edgar L. Frazell, Clinical Associate Professor of Surgery
 Harry Grabstald, Clinical Associate Professor of Surgery (Urology)
 Theodore R. Miller, Clinical Associate Professor of Surgery
 John L. Pool, Clinical Associate Professor of Surgery
 Jerome A. Urban, Clinical Associate Professor of Surgery

Robert J. Booher, Clinical Assistant Professor of Surgery
 Lemuel Bowden, Clinical Assistant Professor of Surgery
 Richard D. Brasfield, Clinical Assistant Professor of Surgery
 Daniel Catlin, Clinical Assistant Professor of Surgery
 Donald G.C. Clark, Clinical Assistant Professor of Surgery
 Hollon W. Farr, Clinical Assistant Professor of Surgery
 Harry S. Goldsmith, Assistant Professor of Surgery
 John S. Lewis, Clinical Assistant Professor of Surgery
 Lucille Loscke, Clinical Assistant Professor of Surgery
 Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Charles J. McPeak, Clinical Assistant Professor of Surgery
 Stuart H. Q. Quan, Clinical Assistant Professor of Surgery
 Guy Robbins, Clinical Assistant Professor of Surgery
 Maus Stearns, Jr., Clinical Assistant Professor of Surgery
 Elliot W. Strong, Clinical Assistant Professor of Surgery
 H. Randall Tollefsen, Clinical Assistant Professor of Surgery

Instructors:

William H. Knapper
 Nael Martini

Thaddeus E. Starzynski

William A. White

Clinical Instructors:

Myron Arlen
 Hiroyuki Ashikari
 Angelo J. DePalo
 Alfred A. Fracchia
 Frank P. Gerold

John T. Goodner
 Charles C. Harrold, Jr.
 Ralph E.L. Hertz
 John C. Lucas
 A. Ranald MacKenzie

Oliver S. Moore
 Michael A. Paglia
 Elizabeth P. Pickett
 Horace W. Whiteley, Jr.

Fellows:

David M. Berger
 Kamal J. Bikhazi
 Carl D. Brannan
 Celso M. Carandang
 Karamat U. Choudhry
 Ali A. El-Domeiri
 S.R. Evans, Jr.

W. Philip Exelby
 Richard I. Goldberg
 Dong-Heup Kim
 Massoud A. Marjani
 Jorge Monroy
 Thomas E. Murphy

Keun Park
 Moustapha M. Rifai
 Solomon Savdie
 Michael L. Small
 Alan D. Turnbull
 Yamin Zakaria-Miandoab

General Surgery

SECOND YEAR. Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in thoracic, cardiovascular, orthopedic, and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Opportunities to participate in experimental procedures in the laboratories for surgical research are available in the summer and are supervised by members of the teaching staff.

THIRD YEAR. The new curriculum that went into effect in 1967 provides a core program of clinical teaching and experience in surgery to all students during eleven or twelve week periods of the third year. This consolidates all

the didactic and clinical teaching that previously was distributed through the third and fourth years, and leaves the fourth year for elective studies which the student might want to undertake.

In the third year curriculum one hour, on Wednesday mornings from 8 to 9 provides lectures on surgery and its subspecialties. The lectures for the entire class are given by the department chairman and the chiefs of the subspecialties of their immediate associates.

Each quarter of the third year class spends from eleven to twelve weeks on the surgical pavilions and attends out-patient clinics in surgery and its subspecialties. In the out-patient department the students gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, taking full histories and doing complete physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student in order that the results of diagnostic procedures and the clinical course may be observed first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of general surgery as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, thoracic, cardiovascular and fractures, where they receive instruction in special methods of diagnosis and have opportunity to evaluate therapy of the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. Each section is divided into operating teams of four: an anesthetist, a surgeon, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded by the students pre and postoperative care simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with considerations of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide for a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the outpatient department. Not only does this provide an understanding of the source of surgical patients, but it also affords an opportunity for him to see what surgical therapy may accomplish. In addition, the student has the chance to observe the occasional postoperative complications in the following-up clinics where patients return following surgery that has been performed within the hospital.

As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on each patient assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first hand the

pathological condition for which the operation was undertaken. He attends the rounds held by the resident staff and members of the senior staff.

FRACTURE CONFERENCE. In the late afternoon each Tuesday a conference to review the fracture patients is conducted by the senior and resident staff and is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 A.M. on Saturdays clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 P.M. to 9 A.M. Monday through Friday and over the weekend. Seeing the wide range of conditions requiring emergency is a valuable experience for the clinical clerk.

SEMINAR. On Saturdays from 10:30 A.M. to 12 M. throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present their evaluations of new advancements of surgery. It is the objective of these exercises to introduce the medical student to the methods of evaluating new developments in surgery, so that later, as a physician, he will be better able to assess, in a methodical and critical manner, new proposals for surgical treatment; so that he may be better able to guide the best therapeutic management of his patients.

By constant and uninterrupted association with "his" patients and those doctors who are caring for them, the student gains direct experience with the normal course which follows major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the student during his term on surgery.

FOURTH YEAR. In the fourth year the Department of Surgery offers a variety of electives, including experience in clinical fields as well as in the research laboratories. These are fully outlined in the *Catalogue of Electives*.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School and not registered for the M.D. degree are Special Students.

Such students are *Special Students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special Students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

MATRICULATION FEE: \$10

ADMINISTRATION FEES: \$5

Tuition fees vary depending upon the type of work taken. A break-age fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246	...	...	...	...
Microscopic Anatomy	165	...	...	...	...
Neuroanatomy	84	...	...	...	...
Developmental Anatomy and Genetics	77	...	...	...	572
BIOCHEMISTRY	220	...	...	...	220
MICROBIOLOGY AND IMMUNOLOGY .....	...	165	...	...	165
PHYSIOLOGY	231	...	...	...	231
RADIOBIOLOGY	11	...	...	...	11
PATHOLOGY .....	...	297	...	...	297
PHARMACOLOGY .....	...	154	...	...	154
PHYSICAL DIAGNOSIS* .....	...	129	...	...	129
MEDICINE:					
Clinical Pathology and Introductory Medicine .....	...	80	...	...	...
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	510
SURGERY:					
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	430
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction .....	...	...	280	...	...
Lectures	11	...	35	...	326
PEDIATRICS:					
Practical Instruction .....	...	...	280	...	...
Lectures	11	...	35	...	326
PSYCHIATRY:					
Medical Aspects of Human Behavior	22	...	...	...	...
Psychiatry .....	...	33	136	...	...
Behavioral Science	11	...	...	...	202
PUBLIC HEALTH:					
Parasitology .....	...	33	...	...	...
Field and Section .....	...	...	36	...	...
Lectures .....	...	11	30	...	...
BIOMETRICS .....	...	33	...	...	...
RADIOLOGY .....	...	...	20	...	...
NEUROLOGY:					
Lectures .....	...	11	15	...	...
Clinical Hours .....	...	33	140	...	...
ELECTIVES HOURS .....	...	...	...	1225	1225
Totals	1089	979	1867	1225	4798

* Includes medical, surgical, and gynecological aspects of physical diagnosis.

FIRST-YEAR SCHEDULE 1969-70

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
9-10 10-11 11-12	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Clinical Correlation Conference
12-1	Lunch	Lunch	Lunch	Lunch	Lunch	
1-2	Biochemistry	Biochemistry	Biochemistry	Biochemistry	Biochemistry	
2-3				Micro. A.		
3-4 4-5	Microscopic Anatomy	Gross Anatomy	Free	Free	Gross Anatomy	

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
9-10	Neuro. Anatomy	Physiol.	Physiol.	Physiol.	Physiol.	Clinical Correlation Conference
10-11 11-12		Gross Anatomy	Neuro. Anatomy	Neuro. Anatomy	Gross Anatomy	
12-1				Lunch		
1-2	Microscopic Anatomy	Lunch	Lunch	Psychiat.	Lunch	
2-3		Gross Anatomy	Micro- Anatomy	Psychiat.	Gross Anatomy	
3-4						
4-5			Free	Free		

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
9-10	Human Growth & Development	Physiol.	Biochem.	Physiol.	Human Growth & Development	Clinical Correlation Conference
10-11 11-12 12-1	Biochem.				Physiol. Physiol.	
1-2	Lunch				Lunch	
2-3	Biochem.	Physiol.	Physiol.	Physiol.	Biochem.	
3-4			Human Growth & Development			
4-5			Free			

SECOND-YEAR SCHEDULE 1969-70

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Free Pharmacology CPC	Pathology	Pathology	Pharmacology	
10-11						
11-12						
12-1						
1-2						
2-3	Microbiology	Epidem.I	Microbiology	Pharmacology	Microbiology	
3-4		Free		Epidem. I		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pharmacology	Pharma- cology	Pharmacology	Pathology	Pharmacology	
10-11	Pathology		Pathology			
11-12						
12-1		CPC			Free	
1-2		Free				
2-3	Microbiology & Parasitology		Microbiology & Parisitology	Free	Microbiology & Parasitology	
3-4						
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Medicine*	Medicine*	Epidem. II	Pathology	Psychiatry	
10-11			Medicine*			
11-12							Neurology
12-1		GPC				
1-2						
2-3	Medicine*	Free	Medicine*	Medicine*	Medicine*	
3-4						
4-5						

* Medicine time will be subdivided to provide for: physical diagnosis, introductory medicine, neurology, and clinical pathology.

THIRD-YEAR SCHEDULE 1969-70

SECTION I: Div. <i>A</i>	12 weeks		11 weeks		7 weeks		7 weeks		8 weeks		SECTION I: Div. <i>C</i>
	Med.	Surg.	VACATION			Ob.	VACATION		Neurol., Psych., & Pub. Health	Ped.	
	Surg.	Med.				Ped.			Ob.	Neurol., Psych., & Pub. Health	
Div. <i>B</i>											Div. <i>D</i>
SECTION II: Div. <i>C</i>	Ob.	Neurol., Psych., & Pub. Health	CHRISTMAS			Med.	SPRING				SECTION II: Div. <i>A</i>
	Ped.	Ob.									
	Neurol., Psych., & Pub. Health	Ped.									
Div. <i>D</i>											Div. <i>B</i>
Div. <i>E</i>											Div. <i>E</i>
	8 weeks	8 weeks	7 weeks		11 weeks		11 weeks		11 weeks		

SECTION I:
Div. C

Div. D

Div. E

SECTION II:
Div. A

Div. B

FOURTH-YEAR SCHEDULE
1969-70

Elective Modules

A	Sept. 2-Oct. 26	(eight weeks)
B	Oct. 27-Dec. 20	(eight weeks)
C	Jan. 5-Feb. 22	(seven weeks)
D	Feb. 23-April 12	(seven weeks)
E	April 13-May 28	(seven weeks)

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and The Society of The New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment, in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in anatomy, biochemistry, biomathematics, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this *Announcement* and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

DIVISION OF BIOMATHEMATICS

The Field of Biomathematics is supported jointly by the Medical College and the Sloan-Kettering Institute.

Sol I. Rubinow, Professor of Biomathematics, Chairman
Hirsh G. Cohen, Visiting Professor of Biomathematics
Joel L. Lebowitz, Visiting Professor of Biomathematics

Tai Te Wu, Associate Professor of Biomathematics
Betty J. Flehinger, Visiting Associate Professor of Biomathematics
Richard P. Kelisky, Visiting Associate Professor in Biomathematics

Daniel A. Bloch, Assistant Professor of Biomathematics
Evelyn F. Keller, Assistant Professor of Biomathematics
Valerie Miké, Assistant Professor of Biomathematics
Aubey Rotenberg, Assistant Professor of Biomathematics

The Division of Biomathematics offers a wide range of opportunities for the development of quantitative methods in the biological and medical sciences, with special emphasis on the application of mathematics and the utilization of automatic computers. Graduate study programs leading to advanced degrees in the Fields of Biomathematics and Biostatistics are avail-

able to students whose primary interests are mathematical, but who wish to concentrate on biological or medical applications.

Graduate students in the Field of Biomathematics are required to obtain thorough training in linear algebra, complex variables, and partial differential equations and boundary value problems. Students in the Field of Biostatistics are required to obtain thorough training in probability theory and fundamentals of statistical inference. In addition to other courses, an appropriate plan of study in the relevant aspects of biology, chemistry, physics, and medicine will be made to suit the particular area of application of the individual student. Some typical research areas in the Field of Biomathematics are biological and chemical kinetics, biophysics, molecular biology, and physiological systems. Some typical research areas in the Field of Biostatistics are differential diagnosis, nerve impulse transmission, planning of clinical trials, storage and retrieval of medical information, and surveillance programs.

Special opportunities are also available for research at the postdoctoral level. While postdoctoral fellows should have a high degree of competence in the basic skills of biomathematics or biostatistics, they need not necessarily be professional mathematicians.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information, as a coordinator of those functions in which all of the parties to this agreement are interested, and makes recommendations to the respective Boards of the parties to the agreement.

Members of the Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College at present follow.

REPRESENTATIVES OF MEMORIAL HOSPITAL

Harold W. Fisher

John M. Walker

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Harold W. Fisher

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James A. Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East Sixty-eighth Street, and the Kettering Laboratory, 425 East Sixty-eighth Street, New York City; and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the

Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

M. Earl Balis, Professor of Biochemistry, Chairman
 Aaron Bendich, Professor of Biochemistry
 Oscar Bodansky, Professor of Biochemistry
 George B. Brown, Professor of Biochemistry
 Liebe F. Cavalieri, Professor of Biochemistry
 Jack J. Fox, Professor of Biochemistry
 Mary L. Petermann, Professor of Biochemistry
 Martin Sonenberg, Professor of Biochemistry
 C. Chester Stock, Professor of Biochemistry

Ellen Borenfreund, Associate Professor of Biochemistry
 Saul Green, Associate Professor of Biochemistry
 Jerome S. Nisselbaum, Associate Professor of Biochemistry
 Morton K. Schwartz, Associate Professor of Biochemistry

Nancy W. Alcock, Assistant Professor of Biochemistry
 John D. Fissekis, Assistant Professor of Biochemistry
 Alfredo Giner-Sorolla, Assistant Professor of Biochemistry
 Mary G. Hamilton, Assistant Professor of Biochemistry
 Dietrich Hoffmann, Assistant Professor of Biochemistry
 Levy Kopelovich, Assistant Professor of Biochemistry
 Willi Kreis, Assistant Professor of Biochemistry
 John Lenard, Assistant Professor of Biochemistry
 James C. Parham II, Assistant Professor of Biochemistry
 Barbara H. Rosenberg, Assistant Professor of Biochemistry
 Josephine S. Salser, Assistant Professor of Biochemistry
 Vladimir P. Skipski, Assistant Professor of Biochemistry
 Norbert I. Swislocki, Assistant Professor of Biochemistry
 Thomas E. Wagner, Assistant Professor of Biochemistry

Instructors:

Martin Fleisher
 Edward D. Lash

Israel Scheinfeld
 Lawrence Sweetman

Intensive study is offered in the fields of enzymology, bioorganic chemistry, molecular biology, metabolism of proteins and nucleic acids, and biochemistry of protein hormones.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Dorris J. Hutchison, Associate Professor of Microbiology, Chairman
 Edward A. Boyse, Professor of Biology
 Gilbert Dalldorf, Professor of Pathology, Emeritus
 Etienne De Harven, Professor of Biology
 Frank W. Foote, Jr., Professor of Pathology
 Peter J. Gomatos, Professor of Microbiology
 Frank L. Horsfall, Jr., Professor of Microbiology
 Lloyd J. Old, Professor of Biology
 Frederick S. Philips, Professor of Pharmacology
 F. Kingsley Sanders, Professor of Cell Biology
 Fred W. Stewart, Professor of Pathology, Emeritus

Jørgen E. Fogh, Associate Professor of Microbiology
 Leopold G. Koss, Associate Professor of Pathology
 Alice E. Moore, Associate Professor of Biology
 H. Christine Reilly, Associate Professor of Microbiology
 Francis M. Sirotnak, Associate Professor of Microbiology
 Stephen S. Sternberg, Associate Professor of Pathology
 Leo Wade, Associate Professor of Preventive Medicine
 Ernest L. Wynder, Associate Professor of Preventive Medicine

Alberta M. Albrecht, Assistant Professor of Microbiology
 June L. Biedler, Assistant Professor of Biology
 Edward S. Essner, Assistant Professor of Biology
 Erwin Fleissner, Assistant Professor of Microbiology
 Robert M. Krug, Assistant Professor of Microbiology
 Wilbur F. Noyes III, Assistant Professor of Biology
 Herbert F. Oettgen, Assistant Professor of Biology
 Morris N. Teller, Assistant Professor of Biology
 Morris S. Zedeck, Assistant Professor of Pharmacology

Instructors:

Elaine G. Diacumakos Elliott H. Stonehill

The program in biology is oriented toward an understanding of factors which initiate, control, and modify growth and biological development. Opportunity is offered for advanced work and research in cytology, genetics, virology, immunology, microbiology, endocrinology, and pharmacology.

Undergraduate prerequisites for a major in biology include courses in inorganic chemistry, organic chemistry, qualitative and quantitative chemistry, physical chemistry, physics (mechanics, electricity, and magnetism; sound, heat, and light), mathematics (through calculus), and general biology or zoology or botany. If any of these requirements are not completed at the undergraduate level, they must be completed during the first year of graduate study.

Programs are determined individually on the basis of interest, training, and prior experience. Elective courses in basic medical sciences include those described for the Medical College. Formal graduate courses, seminars, and tutorials are arranged with the faculties of the Sloan-Kettering Division of the Medical College.

BIOPHYSICS

Edward R. Epp, Associate Professor of Biophysics, Chairman
John S. Laughlin, Professor of Biophysics

Jerrold Fried, Assistant Professor of Biophysics
Harold Moroson, Assistant Professor of Biophysics
Ira Pullman, Assistant Professor of Biophysics
Roy S. Tilbury, Assistant Professor of Biophysics
Louis Zeitz, Assistant Professor of Biophysics

Instructors:

Alan S. Gelbard

Nikita D. Kessar

Shirley M. Lehnert

Graduate work is offered by this Department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the coexistence of fundamental research and practical and clinical applications in Memorial Sloan-Kettering Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

INTERNSHIP APPOINTMENTS

CLASS OF 1969

Ahola, Saul J.	Med. ¹	Boston City Hospital, Harvard Division, Boston, Mass.
Alkon, Daniel L.	Med.	Mount Sinai Hospital, New York, N.Y.
Anku, Vincent D.	Med.	University Hospitals of Cleveland, Cleveland, Ohio
Arangio, George A.	Surg.	Temple University Hospitals, Philadelphia, Pa.
Ariola, Richard D.	Med.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Ballantyne, Ford III	Rot.	University Hospitals, Madison, Wisc.
Belladonna, Joseph A.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Bloom, G. Peter	Surg.	The New York Hospital, New York, N.Y.
Borer, Jeffrey S.	Med.	Massachusetts General Hospital, Boston, Mass.
Boyer, David W. Jr.	Surg.	Colorado Medical Center, Denver Colo.
Buchholtz, Thomas W.	Surg.	Boston City Hospital, Tufts Division, Boston, Mass.
Cannon, Patrick J.	Surg.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Carling, Philip C., Jr.	Med.	University Hospital, Boston, Mass.
Collins, Robert C.	Med.	Massachusetts General Hospital, Boston, Mass.
Dauber, James H.	Med.	Barnes Hospital, St. Louis, Mo.
Davidson, William H.	Surg.	Colorado Medical Center, Denver, Colo.
Digby, Robert H.	Med.	St. Louis University Hospitals, St. Louis, Mo.
Donnellan, Edmond J.	Rot.	Bronx Municipal Hospital Center, New York, N.Y.
Donovan, Robert G.	Med.	University Hospital, Boston, Mass.
Dunnick, N. Reed	Med.	Strong Memorial Hospital, Rochester, N.Y.
Ellsworth, Charles A.	Med.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Foley, Kathleen M.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.
Foster, James R.	Med.	Peter Bent Brigham Hospital, Boston, Mass.
Friedman, Richard B.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.
Gabbe, Steven G.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.
Gaffney, Kathleen A.	Med.	University of Virginia Hospital, Charlottesville, Va.
Gallin, John I.	Med.	Bellevue Hospital, New York, N.Y.
Gerber, Arthur M.	Surg.	University of Chicago Hospitals and Clinics, Chicago, Ill.
Grant, Paul J.	Rot.	Medical Center of Vermont, Burlington, Vt.
Grinberg, Marc A.	Rot.	Jackson Memorial Hospital, Miami, Fla.
Gross, George W. Jr.	Rot.	Medical Center of Vermont, Burlington, Vt.
Gunderson, David H.	Med.	San Diego County Hospital, San Diego, Calif.
Haber, Richard J.	Med.	H. C. Moffit, Univ. of California Hospitals, San Francisco, Calif.
Hatfield, Richard N.	Surg.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Hershey, Douglas W.	Rot.	Kaiser Foundation Hospital, San Francisco, Calif.
Hirshfeld, John W., Jr.	Med.	Yale-New Haven Medical Center, New Haven, Conn.
Howland, Judith A.	Ped.	Childrens Hospital, Pittsburgh, Pa.
Kelley, Charles G.	Surg.	The New York Hospital, New York, N.Y.
Kessler, Jeffrey T.	Med.	The New York Hospital; Memorial Hospital, New York, N. Y.

1. Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

Koch, Francis H.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Kochenour, Neil K.	Med.	Colorado Medical Center, Denver Colo.
Leshner, Robert T.	Rot.	Medical Center of Vermont, Burlington, Vt.
Lockwood, Alan H.	Med.	Presbyterian-University of Pa. Medical Center, Philadelphia, Pa.
Loy, Frederick P.	Surg.	The New York Hospital, New York, N.Y.
Mann, Elizabeth S.	Rot.	University of Virginia Hospital, Charlottesville, Va.
Mann, J. Douglas	Rot.	University of Virginia Hospital, Charlottesville, Va.
McGee, Paul A.	Rot.	Los Angeles County General Hospital, Los Angeles, Calif.
McKee, Michael B.	Rot.	Medical Center of Vermont, Burlington, Vt.
Middleton, George W.	Surg.	The New York Hospital, New York, N.Y.
Modlinger, Robert S.	Med.	Mount Sinai Hospital, New York, N.Y.
Moorhead, Dudley T. II	Surg.	Boston City Hospital, Harvard Div., Boston, Mass.
Mulroy, Michael F. II	Rot.	San Francisco General Hospital, San Francisco, Calif.
Ogsbury, James S. III	Surg.	The New York Hospital, New York, N.Y.
Olmsted, Leonard M., Jr.	Surg.	Grady Memorial Hospital, Atlanta, Ga.
Paladino, Bernard M.	Rot.	St. Francis General Hospital, Pittsburgh, Pa.
Parker, Leighton B. Jr.	Surg.	Charity Hospital (Tulane Division), New Orleans, La.
Parr, Grant Van S.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Peelle, Kenneth R.	Rot.	Medical Center of Vermont, Burlington, Vt.
Pelton, Stephen L.	Med.	University of Virginia Hospital, Charlottesville, Va.
Poliner, Lawrence R.	Med.	Colorado Medical Center, Denver, Colo.
Popel, George	Med.	Temple University Hospitals, Philadelphia, Pa.
Rotschild, John A.	Med.	North Shore Hospital, Manhasset, Memorial Hospital, New York, N.Y.
Schenkar, David L.	Surg.	King County Hospital, Seattle, Wash.
Schwartz, Michael A.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Sharer, Leroy R., Jr.	Med.	William A. Shands Teaching Hospital, Gainesville, Fla.
Shaul, Stephen R.	Med.	University of Washington Affil. Hospitals, Seattle, Wash.
Sickles, Dale G.	Ped.	The New York Hospital; Memorial Hospital, New York, N.Y.
Sickles, Edward A.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Simon, Jack W.	Ped.	Palo Alto-Stanford Hospital Center,
Singer, R. Steven	Med.	Virginia Mason Hospital, Seattle Wash.
Stein, Sidney F.	Med.	Duke Hospital, Durham, N.C.
Van Kampen, Warren L.	Rot.	Chicago Wesley Memorial Hospital, Chicago, Ill.
Warburton, Robert L.	Rot.	Children's Hospital of San Francisco, San Francisco, Calif.
Wasserman, Paul I.	Med.	Presbyterian-University Hospital of Pennsylvania Medical Center, Philadelphia, Pa.
Whiting, Richard D.	Med.	University of Virginia Hospital, Charlottesville, Va.
Williams, Daniel T.	Ped.	Bronx Municipal Hospital Center, New York, N.Y.
Wilson, Richard W.	Med.	University of Virginia Hospital, Charlottesville, Va.
Wolfe, Frederick F.	Med.	Veterans Administration Hospital, Los Angeles, Calif.
Wylie, C. Victor	Path.	Colorado Medical Center, Denver, Colo.
Wynne, James W.	Med.	William A. Shands Teaching Hospital, Gainesville, Fla.
Zavadil, Anthony P. III	Med.	Boston City Hospital, Harvard Division, Boston, Mass.

REGISTER OF STUDENTS

FOURTH YEAR

Robert McMath Averill, Jr., B.A. 1965, Cornell University	Fort Lauderdale, Fla.
Louis Eugene Bartoshesky, A.B. 1966, University of Notre Dame	Wilmington, Del.
Dennis Hawthorne Becker, B.S. 1966, Duke University	Roslyn Heights, N.Y.
Robert Sanford Bennett, A.B. 1964, Dartmouth College	Worcester, Mass.
Peter William Blumencranz, B.A. 1966, University of Pennsylvania	Kings Point, N.Y.
Kenneth John Blunt, B.A. 1966, Dartmouth College	Hanover, Pa.
James Stephen Borges, B.A. 1966, Drew University	Cranford, N.J.
Robert Lawrence Braham, A.B. 1966, Cornell University	Forest Hills, N.Y.
Richard James Brewer, A.B. 1966, Cornell University	West Hartford, Conn.
Daniel Thomas Broderick III, B.S. 1966, University of Notre Dame	Pittsburgh, Pa.
David Arthur Browne, B.A. 1966, Cornell University	Ithaca, N.Y.
Robert Alexander Cerwin, B.S. 1966, St. John's University	Bronx, N.Y.
Cecil Chang, B.A. 1966, Yale University	Hollis, N.Y.
Randolph Seville Charlton, B.A. 1966, Wesleyan University	Wilton, Conn.
Robert Howard Condon, B.S. 1966, Bucknell University	Jackson Heights, N.Y.
Patrick Coonan, B.A. 1966, Cornell University	Goldsboro, N.C.
Gerald Joseph Cordani, B.S. 1966, The City College of New York	Bronx, N.Y.
Anthony Ignatius Corvelli, B.S. 1966, Fordham University	Bronx, N.Y.
Paul William De Bell, A.B. 1965, Oberlin College	Passaic, N.J.
Thomas Geiger Donovan, B.S. 1966, University of Notre Dame	Maysville, Ky.
Lloyd Richard Dropkin, B.S. 1966, Cornell University	Ithaca, N.Y.
Richard Bruce Drucker, B.A. 1966, Colgate University	New York, N.Y.
Robert Forsyth Fallon, Jr., A.B. 1966, Cornell University	East Aurora, N.Y.
William Walter Goodhue, B.S. 1966, Georgetown University	Eleele, Kauai, Hawaii
Robert Dana Gordon, B.A. 1966, Amherst College*	Hewlett Harbor, N.Y.
James Glenn Haines, B.A. 1966, Johns Hopkins University	Wyomissing, Pa.
Thomas Shelor Harbin, Jr., B.A. 1966, Vanderbilt University	Rome, Ga.
Nicholas Jackson Hardin, B.A. 1965, Amherst College	Needham, Mass.
David Frederick Harris, B.A. 1966, Dartmouth College	Oyster Bay, N.Y.
Peter Bradley Tate Houghton, A.B. 1966, Cornell University	Jamaica, West Indies
Charles DeLisle Hearey, Jr., A.B. 1964, Wesleyan University	Oaklyn, N.J.
Clark Nelson Hopson, A.B. 1966, Brown University	Glen Ridge, N.J.
Robert Edwin Ingham, A.B. 1966, University of California (Berkeley)	Lafayette, Calif.
Peter Arthur Jarvis, B.S. 1966, City College of New York	New York, N.Y.
Diane Richters Karl, B.S. 1966, Bucknell University	River Edge, N.J.
Richard Clemens Karl, Jr., B.A. 1967, Cornell University	Pelham, N.Y.
Richard Alan Katz, A.B. 1966, Cornell University	Beverly, N.J.
Kenneth Jay Kessler, B.A. 1966, University of Virginia	Lakewood, N.J.
John Warren Kirk, A.B. 1966, Providence College	Oak Park, Ill.
Howard Henry Kirtland III, B.S. 1966, Georgetown University	Poughkeepsie, N.Y.
Arthur Paul Knauert, A.B. 1966, Columbia University	New York, N.Y.
Kenneth John Kurtz, B.A. 1966, Williams College	Pittsburgh, Pa.
Gregory Michael La Gana, B.S. 1966, St. Peter's College*	Nutley, N.J.
Salvatore Anthony J. Latteri, B.A. 1966, St. Michael's College	Clifton, N.J.
David Stephen Lerner, A.B. 1966, Columbia University	Brooklyn, N.Y.
Barry Steven Levy, B.A. 1966, Tufts University*	Bayonne, N.J.
Louis Anthony Lobes, Jr., A.B. 1966, College of the Holy Cross	Pelham Manor, N.Y.
Michael Bruce MacQuarrie, A.B. 1966, Dartmouth College	Long Beach, Calif.
Kathryn Elizabeth McGoldrick, 1966, Manhattanville College	Worcester, Mass.
Richard Lawrence Mattson, B.A. 1966, Carleton College	Wichita, Kan.
Clifford Ray Miller, B.S. 1966, State University of New York (Buffalo)	Tonawanda, N.Y.

* On leave of absence, research fellowship.

Robert Gordon Miller, B.S. 1963, United States Naval Academy	Miramar, Calif.
Stephen Henry Moore, B.A. 1966, University of Minnesota	Richville, Minn.
Michael James Morris, B.A. 1966, Cornell University	Hurley, N.Y.
Michael Francis Nigro, Jr., A.B. 1966, Harvard University	Woburn, Mass.
Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota	Minneapolis, Minn.
Roy Michael Nuzzo, B.A. 1966, Rutgers University	Hawthorne, N.J.
Robert Ernest Prout, B.A. 1966, Cornell University	Portland, Conn.
Robert Michael Quinlan, B.S. 1966, College of the Holy Cross	Watertown, Mass.
Charles David Richards, B.A. 1966, University of Utah	Salt Lake City, Utah
William Thomas Riley, Jr., A.B. 1963, Princeton, University	Atherton, Calif.
Mark Jeffrey Rosenberg, B.A. 1966, Amherst College	Maplewood, N.J.
Roger Michael Rossomondo, B.S. 1966, Providence College	Haworth, N.J.
Robert Joseph Rubin, B.A. 1966, Williams College	Brooklyn, N.Y.
Roy Michael Rubin, B.A. 1966, Dartmouth College	Hempstead, N.Y.
William Atkinson Ruth, B.A. 1966, Yale University*	Ardsley-on-Hudson, N.Y.
Jurij Savvyckij, B.S. 1966, Utica College	Utica, N.Y.
Edgar Charles Schick, Jr., B.S. 1966, College of the Holy Cross	Delmar, N.Y.
Stuart Floyd Seides, B.S. 1967, Pennsylvania State University	Jericho, N.Y.
Francis Edward Sharkey, B.S. 1965, Fairfield University	Pound Ridge, N.Y.
Richard Michael Sigel, A.B. 1966, Cornell University	New York, N.Y.
Carol Frances Singer, B.A. 1966, University of Michigan	Teaneck, N.J.
Peter George Sohnle, B.A. 1966, Rutgers University*	Basking Ridge, N.J.
Richard Alfred Sperling, B.A. 1966, University of North Carolina	North Plainfield, N.J.
Howard Charles Steier, A.B. 1966, Queens College	Douglaston, N.Y.
Henry Ellis Streifeld, A.B. 1966, Dartmouth College	Flushing, N.Y.
Peter Imre Antal Szilagyi, B.S. 1965, Yale University; M.A. 1966, Harvard University	Hamden, Conn.
Susan Scholl Szilagyi, B.A. 1966, Grinnell College	St. James, Mo.
Michael David Talbot, A.B. 1966, Columbia University	Queens, N.Y.
Richard Loren Tax, B.A. 1966, Hofstra University	Westbury, N.Y.
Eric Joseph Thomas, B.S. 1966, Fordham University	Bronx, N.Y.
Eric Neil Thompson, A.B. 1966, Cornell University	Poughkeepsie, N.Y.
Thomas Stone Thornhill, A.B. 1966, Williams College	Charleston, W.Va.
Stephen Ernest Tosi, A.B. 1966, Dartmouth College	Shrewsbury, Mass.
Joseph Santo Tulumello, A.B. 1965, Harvard University	Piscataway, N.J.
Henry Davis von Oesen, B.A. 1966, Amherst College	Wilmington, N.C.
Steven Edward Vogl, A.B. 1966, Cornell University	Brooklyn, N.Y.
Harold Walker Ward, Jr., B.A. 1966, Lehigh University	Glasgow, Ky.
Fredrick Louis Weber, Jr., B.A. 1966, Wesleyan University	Syracuse, N.Y.
George Lewis Wineburgh, B.A. 1966, Cornell University	Utica, N.Y.
George Frederick Wooten, Jr., B.A. 1965, Rice University	Talladega, Ala.

THIRD YEAR

Gerald Francis Abbott, 1967, Creighton University	Chicago, Ill.
Francis Vincent Adams, A.B. 1967, Georgetown University	Forest Hills, N.Y.
Lawrence Yawo Agodoa, B.A. 1967, State College of Iowa	Ghana, West Africa
Ronald Frederick Altman, A.B. 1967, Cornell University	Rockville Centre, N.Y.
Laurence Richard Avins, B.A. 1967, Amherst College	Princeton, N.J.
Alan Stuart Bahler, B.S.E.E. 1957, M.S.E.E. 1959, Newark College of Engineering; Ph.D. 1966, Johns Hopkins University	Houston, Texas
Richard Stuart Bailyn, A.B. 1967, Cornell University	Teaneck, N.J.
Charles Frederick Barer, B.A. 1967, Cornell University	Bronxville, N.Y.
Francis Joseph Bia, B.S. 1967, Fordham University	New York, N.Y.
Julian Bindler, A.B. 1967, Cornell University	Jamaica, N.Y.
Peter Anthony Blasco, B.S. 1967, Georgetown University	Rosemount, Minn.
Wayne Robert Brinton, B.S. 1967, University of Utah	Salt Lake City, Utah
Paul Axtell Bunn, B.A. 1967, Amherst College	Dewitt, N.Y.

* On leave of absence, research fellowship.

- Lawrence Reid Burdge, Jr., B.A. 1964, Duke University
 Stephen William Burke, B.S. 1967, Spring Hill College
 Fred Chin Chu, A.B. 1967, Princeton University
 Arnold William Cohen, B.S. 1967, Bucknell University
 James Robert Cohen, A.B. 1967, Cornell University
 David Allen Console, A.B. 1967, Cornell University
 John Bennett Coombs, B.S. 1967, University of Washington
 Florence Grace Crawford, B.A. 1967, Drew University
 Thomas James Crawford, A.B. 1967, Hamilton College
 John Frederick Crowe, 1967, Boston University
 Robert Louis Cucin, B.S. 1967, Cornell University
 John Francis Denver, Jr., B.S. 1967, University of Notre Dame
 Jay Gaston DuBois, A.B. 1967, Cornell University
 Stephen Curtis Duck, A.B. 1967, Wesleyan University
 Jeanette Arleah Easton, B.S. 1967, Muhlenberg College
 Jeffrey John Eckardt, B.A. 1967, Williams College
 Keith Fortier, B.S. 1967, Rutgers University
 James Arthur Fry, B.S. 1967, Grinnell College
 Kent R. Gamette, B.S. 1967, Brigham Young University
 Walter Frederick George, B.A. 1967, Holy Cross College
 Jeffrey Neal Gingold, B.A. 1967, Tufts University
 David Ross Gutknecht, A.B. 1967, Cornell University
 Eric Ian Gutnick, B.A. 1967, Ohio Wesleyan University
 Ronald Keith Harris, B.S. 1967, Upsala College
 John David Haynes, Jr., B.S. 1967, Wheaton College
 Boyd Frederick Helmkamp, B.A. 1967, Brown University
 Wynn Howard Hemmert, B.S. 1967, University of Utah
 Richard Thomas Hoppe, B.A. 1967, Cornell University
 David Anthony Horvat, B.S. 1967, Boston College
 John Joseph Janick, B.S. 1967, State University of New York (Albany)
 Ronald Steven Kahan, B.A. 1967, Yale University
 David Richard Kalifon, B.S. 1967, Rutgers University
 Morton, Aaron Kamzan, B.S. 1967, Union College
 John Allen Kessler, B.A. 1967, Princeton University
 Mitchell Harlan Koch, A.B. 1967, Cornell University
 Timothy Walter Lane, B.A. 1967, Yale University
 Robert Laureno, A.B. 1967, Cornell University
 Wayne Lawrence Letizia, B.A. 1967, Dartmouth College
 David Seth Liebling, B.A. 1967, Rutgers University
 Ivan Stewart Login, B.A. 1967, University of Pennsylvania
 Richard Alan Lynn, B.A. 1967, New York University
 Christine Daniele Maisonrouge, C.P.E.M. 1966, University of Paris
 Theo Clyde Manschreck, B.A. 1967, Carleton College
 Kenneth Muir McConnochie, A.B. 1967, Dartmouth College
 Sam Stanley Miller, A.B. 1963, Columbia University
 Thomas Saunders Moore, B.A. 1967, University of Virginia
 Peter Allen Monoson, B.A. 1967, Hamilton College
 John Merritt Morse, B.S. 1967, Iowa State University
 Patrick Joseph Murphy, A.B. 1967, Holy Cross College
 Angel Jesus Olazabal, B.S. 1967, Manhattan College
 Edward Carleton Palmer, A.B. 1961, Dartmouth College
 John Craig Perlmutter, B.A. 1967, Queens College
 Eugene John Pilek, B.S. 1967, Iona College
 Henry Anthony Pitt, A.B. 1967, Cornell University
 Robert Lawrence Protell, A.B. 1967, Rutgers University
 Marianne Nucci Prout, B.A. 1967, Cornell University
 Louis Edward Rambler, A.B. 1967, Princeton University
 Charles William Rance, B.S. 1967, Georgetown University
 John Peter Roberts, B.A. 1967, Middlebury College
 Robert George Robinson, A.B. 1967, Cornell University
 Red Bank, N.J.
 Elmira, N.Y.
 Jersey City, N.J.
 Fair Lawn, N.J.
 Elkins Park, Pa.
 Roslyn, N.Y.
 Seattle, Wash.
 Asbury Park, N.J.
 Whitesboro, N.Y.
 Norwood, Mass.
 New York, N.Y.
 Merrick, N.Y.
 St. Louis, Mo.
 Indianapolis, Ind.
 Englishtown, N.J.
 Memphis, Tenn.
 Manasquan, N.J.
 Naperville, Ill.
 Provo, Utah
 Croton-on-Hudson, N.Y.
 Great Neck, N.Y.
 Nutley, N.J.
 Philadelphia, Pa.
 Glen Ridge, N.J.
 Nanuet, N.Y.
 Miami, Fla.
 Afton, Wyo.
 Seaford, N.Y.
 Danielson, Conn.
 Port Chester, N.Y.
 Larchmont, N.Y.
 New York, N.Y.
 Lido Beach, N.Y.
 Moorestown, N.J.
 Mt. Kisco, N.Y.
 Houlton, Me.
 University Heights, Ohio
 Newark, N.J.
 Springfield, N.J.
 North Bergen, N.J.
 West Hempstead, N.Y.
 Bronxville, N.Y.
 Chicago, Ill.
 Stamford, Conn.
 San Antonio, Tex.
 Newport News, Va.
 Brooklyn, N.Y.
 La Grange, Ill.
 Chicago, Ill.
 Bayamon, P.R.
 Little Compton, R.I.
 Rego Park, N.Y.
 Bronx, N.Y.
 Union, N.J.
 Fort Lee, N.J.
 South Bend, Ind.
 Cherry Hill, N.J.
 Garden City, N.Y.
 Kingston, N.Y.
 Pittsburgh, Pa.

- Nancy Josette Ronsheim, B.S. 1964, Cornell; M.A.T. 1965, Harvard University
Great Neck, N.Y.
- Steven Gerald Rosenblatt, B.A. 1967, Vanderbilt University
Chevy Chase, Md.
- Brian Raymond Rutley, B.A. 1967, University of San Francisco
Inglewood, Calif.
- Carl Howard Sadowsky, B.S. 1967, State University of New York
(Stony Brook)
Hollis, N.Y.
- Bill Stuart Schnall, B.A. 1967, Kenyon College
Hewlett, N.Y.
- Kenneth Victor Schwartz, A.B. 1967, Princeton University
Millburn, N.J.
- David William Schwenker, B.S. 1967, Cornell University
Scotia, N.Y.
- Paul Wayne Shank, B.A. 1964, Cornell University
Pittsburgh, Pa.
- Roger Pancoast Simon, B.S. 1964, M.S. 1967, Pennsylvania
State University
Philadelphia, Pa.
- Bruce Michael Smith, B.A. 1967, Queens College
Bayside, N.Y.
- James Morgan Sprott, Jr., B.A. 1967, Vanderbilt University
Lake Wales, Fla.
- Donald Robert Steinmuller, B.A. 1967, Williams College
Marblehead, Mass.
- Nestor Bohdan Tomycz, B.S. 1967, Rensselaer Polytechnic
Institute
Utica, N.Y.
- Russell John Vergess, B.A. 1967, Columbia University
Harrington Park, N.J.
- Michael Peter Weinstein, A.B. 1967, Cornell University
Great Neck, N.Y.
- Robert George Wickiewicz, B.S. 1967, St. Peter's College
Jersey City, N.J.
- Richard James Yeager, B.A. 1967, Swarthmore College
Toms River, N.J.

SECOND YEAR

- Dianne Dilmaghani Aronian, B.S. 1962, Westminster College
New York, N.Y.
- Robert John Berry, B.S. 1968, University of Utah
Golden, Colo.
- Margaret Johnson Bia, B.S. 1968, Fordham University
Brooklyn, N.Y.
- Bruce Mark Bissonnette, B.S. 1968, Purdue University
Evansville, Ind.
- Kenneth Ronald Blanchard, S.B. 1961, Massachusetts Institute of
Technology; A.M.; Ph.D. 1965, Princeton University
Poughkeepsie, N. Y.
- John Timothy Boyle, B.S. 1968, University of Notre Dame
Suffern, N.Y.
- Bruce Lawrence Burgreen, B.A. 1968, Queens College
Jamaica, N.Y.
- Robert William Carlson, B.S. 1968, University of Washington
Mercer Island, Wash.
- James Henry Clifford, Jr., A.B. 1968, Dartmouth College
Merrick, N.Y.
- Henry Leon de Give III, A.B. 1968, College of the Holy Cross
Atlanta, Ga.
- Robert Gary DeLong, B.S. 1968, Cornell University
Manlius, N.Y.
- William Augustus Donnelly, Jr., B.A. 1968, Yale University
Weston, Vt.
- Patricia Anne Duerr, A.B. 1966, College of New Rochelle
Jackson Heights, N.Y.
- Lawrence H. Ehrlich, B.A. 1968, Western Reserve University
Mamaroneck, N.Y.
- Lawrence David Eisenhauer, B.A. 1968, Dartmouth College
Barrington, R.I.
- Martin Peter Elliott, B.A. 1968, Reed College
Centerport, N.Y.
- Louis Cornelius Enkema, Jr., A.B. 1967, Stanford University
Berkeley, Calif.
- Robert Patrick Ferguson, B.A. 1968, Cornell University
Slingerlands, N.Y.
- Frederick John Ferlic, B.S. 1968, University of Notre Dame
Carroll, Iowa
- David Stoker Folland, B.S. 1968, University of Utah
Salt Lake City, Utah
- William Webster Frayer, B.S. 1966, M.S. 1968, Cornell University
Endwell, N.Y.
- Marc Jay Friedman, A.B. 1968, Princeton University
Westbury, N.Y.
- Steven Michael Friedman, A.B. 1968, Princeton University
Baltimore, Md.
- James Edward Gadek, B.S. 1968, Georgetown University
Woodbridge, N.J.
- Frank William Gamache, Jr., B.A. 1969, Wesleyan University
Madison, Conn.
- Robert Jay Goldenkranz, A.B. 1968, New York University
Brooklyn, N.Y.
- Thomas William Griffin, B.S. 1968, Boston College
Glen Ridge, N.J.
- Robert Russell Hackford, Jr., B.A. 1968, Harvard University
Concord, Mass.
- Newell Anthony Hargett, B.S. 1968, Xavier University
Maysville, Ky.
- Daniel Malin Hayes, B.S. 1968, Fairfield University
Hartford, Conn.
- Paul George Hess, B.A. 1968, Fordham University
Buffalo, N.Y.
- Irving Mark Hiatt, B.A. 1968, Cornell University
Syracuse, N.Y.
- Jonathan Willard Hopkins, B.S. 1966, Massachusetts Institute
of Technology
Urbana, Ill.
- James Wethington Husted, B.A. 1968, Villanova University
Rochester, N.Y.

- Barton Inkeles, B.S. 1968, Brooklyn College
 Charles Ignatius Jarowski, B.A. 1968, Columbia University
 David Cedric Jimerson, A.B. 1968, Harvard University
 Ralph Michael Kamell, B.S. 1968, Cornell University
 Michael Jerome Kaminsky, B.A. 1967, Yale University
 Glen Ray Kartchner, B.S. 1968, University of Arizona
 Kenneth Sherrard Kelleher, Jr., A.B. 1968, College of the Holy Cross
 Thomas Lyle Kennedy III, B.A. 1968, Princeton University
 Bart Peter Ketover, A.B. 1968, Princeton University
 William Barry Kleinman, B.A. 1968, Rutgers University
 Thomas Monroe Krop, A.B. 1968, Cornell University
 Mary Kathryn Kukolich, A.B. 1968, Cornell University
 Michael Hugh Lavyne, A.B. 1968, Williams College
 Daniel Lyons Leary, Jr., A.B. 1960, Harvard University
 Bruce Kerr Lloyd, B.S. 1968, Pennsylvania State University
 Neil Ross MacIntyre, Jr., B.S. 1968, University of San Francisco
 Phillip Hugh Maguire, B.S. 1968, St. Peter's College
 Jonathan Madirossian, B.A. 1968, Williams College
 Henry Masur, A.B. 1968, Dartmouth College
 Richard Edward Mattison, B.A. 1968, Lafayette College
 Paul Thomas McDonald, B.S. 1965, United States Military Academy
 Donald Harwood Morgan, B.A. 1962, Cornell University
 Bruce Wright Moulton, A.B. 1968, Cornell University
 Henry Wilke Murray, A.B. 1968, Cornell University
 Michael Anthony Mustille, B.A. 1968, Williams College
 John Tobias Nagurney, A.B. 1967, Harvard University
 Peter Edward Nielsen, B.A. 1968, New York University
 Michael William Panio, B.A. 1968, Cornell University
 Joseph Edison Parrillo, Jr., A.B. 1968, Dartmouth College
 James Benjamin Peake, B.S. 1966, United States Military Academy
 James Stapleton Reilly, B.A. 1966, Fordham University; M.S. 1968,
 Boston College
 William Marvin Riedesel II, B.A. 1968, University of Rochester
 Robert John Riesenfeld, A.B. 1968, Duke University
 Peter Scott Robinson, A.B. 1968, Cornell University
 Jon Anderson Rothenberg, A.B. 1963, Harvard University
 Michael Wayland Rubottom, B.S. 1968, San Diego State College
 Judith Anne Scheraga, B.A. 1968, Cornell University
 William Norman Scott, B.A. 1968, University of Pennsylvania
 Ryan Stuart Searle, B.S. 1968, University of Utah
 Geoffrey William Sheridan, B.S. 1968, Rensselaer Polytechnic
 Institute
 Barry Hamilton Smith, A.B. 1965, Harvard University; Ph.D. 1968,
 Massachusetts Institute of Technology
 Joseph Lorenzo Smith, 1968, B.S. University of Utah
 Thomas William Smith, 1968, B.S. Ohio State University
 Dorothy Jacqueline Stein, B.A. 1968, University of Pennsylvania
 Mark Andrew Sullivan, A.B. 1968, College of the Holy Cross
 Karl Chia-Tsen Sze, B.A. 1968, Cornell University
 Frederick Elliot Tabachnick, B.A. 1968, Queens College
 Jerome William Takiff, B.A. 1968, Rutgers University
 Richard Harrison Tuck, A.B. 1968, Franklin & Marshall College
 Richard Walter Urbanek, B.A. 1968, Queens College
 Jeffrey David Urman, B.S. 1967, University of Connecticut
 August John Valenti, B.S. 1968, Saint Peter's College
 Mark Vrana, B.S. 1968, Cornell University
 Robert Alan Weinstein, A.B. 1968, Cornell University
 Roy Glen Wiggins III, A.B. 1968, Bucknell University
 Donald Drake Wilson, B.A. 1968, Colgate University
 Stephen George Wood, B.A. 1968, Stanford University
 New York, N.Y.
 Massapequa Park, N.Y.
 Sinking Spring, Pa.
 Elizabeth, N.J.
 Memphis, Tenn.
 St. David, Ariz.
 Alexandria, Va.
 Allentown, Pa.
 Hewlett Harbor, N.Y.
 Glen Rock, N.J.
 McLean, Va.
 Kalamazoo, Mich.
 Newburgh, N.Y.
 Newburyport, Mass.
 Newtown Square, Pa.
 La Jolla, Calif.
 Belleville, N.J.
 White Plains, N.Y.
 Washington, D.C.
 Bradford, Pa.
 Rockville Centre, N.Y.
 Claymont, Del.
 Marblehead, Mass.
 Washington, D.C.
 Willard, N.Y.
 Cornwall, N.Y.
 New York, N.Y.
 Yonkers, N.Y.
 Paterson, N.J.
 Kensington, Md.
 Forest Hills, N.Y.
 Denver, Colo.
 Oradell, N.J.
 Findley Lake, N.Y.
 Pittsburgh, Pa.
 La Mesa, Calif.
 Ithaca, N.Y.
 Jersey City, N.J.
 Salt Lake City, Utah
 Massapeque, N.Y.
 Greenwich, Conn.
 Green River, Wyo.
 Columbus, Ohio
 Philadelphia, Pa.
 Springfield, Mass.
 Upper Montclair, N.J.
 Bayside, N.Y.
 Elizabeth, N.J.
 Johnstown, Pa.
 Floral Park, N.Y.
 Stanford, Conn.
 Wayne, N.J.
 Ithaca, N.Y.
 Chicago, Ill.
 Westport, Conn.
 Ridgewood, N.J.
 Palo Alto, Calif.

FIRST YEAR

- Robert Irving Appel, B.A. 1969, Columbia University
 John Richard Batiuchok, B.A. 1969, Princeton University
 Neil Arnold Beinhaker, B.A. 1969, Princeton University
 Stuart Michael Bergman, B.A. 1969, Harpur College
 James Lawrence Bernat, B.A. 1969, University of Massachusetts
 William Roscoe Blankenship, B.A. 1969, University Nebraska,
 Henry Robert Bleier, B.S. 1969, The City College of New York
 William Charles Bond, B.S. 1962, United States Naval Academy
 Francis Joseph Brown, B.S. 1969, Georgetown University
 Amelia Burnham, B.A. 1969, Middlebury College
 Richard Michael Cabot, B.S. 1968, Dickinson College
 Robert Nelson Cann, B.S. 1969,* University of Notre Dame
 David Jay Caro, B.A. 1969, University of Chicago
 Ralph Carl DiIorio, B.A. 1969, Fordham University
 Craig Bruce DuMond, B.S. 1969, Cornell University
 Jacqueline LaRose Dunbar, B.S. 1966, New York University;
 M.A. 1969, Hunter College
 Allen Marshall Epstein, B.A. 1969, New York University
 Lonnie Marc Epstein, B.S. 1969, Dickinson College
 Joseph Feinberg, A.B. 1969, Cornell University
 Gregory Alan Filice, B.A. 1969, University of California
 (Berkeley)
 Bertram Martin Froehly, Jr., B.S. 1969, Tulane University
 Roger William Geiss, B.S. 1969, Georgetown University
 Allan Gibofsky, B.S. 1969, Brooklyn College
 George Mendel Goldmark, B.S., M.S. 1969, Massachusetts
 Institute of Technology
 Harry Goldmark, B.S., M.S. 1969, Massachusetts Institute
 of Technology
 Howard Monroe Greilsheimer, B.S. 1969, The City College
 of New York
 Douglas Russell Hadley, B.S. 1969, University of Utah
 Edward Louis Hedlund, B.S. 1969, Iowa Wesleyan College
 William Peden Homan, B.A. 1969, Williams College
 David Daniel Hunt, B.S. 1969, University of Washington
 Richard Paul Ingrasci, B.A. 1969, Cornell University
 Jonathan Eliot Kaplan, B.A. 1969, Cornell University
 Stephen Rogers Karl, B.S. 1969, Cornell University
 Allan Lee Kayne, B.A. 1969, University of Virginia
 Thomas Joseph Kinane, B.S. 1969, United States Military
 Academy
 Daniel Benjamin Klein, B.A. 1969, Dartmouth College
 Mark Steven Joel Klempner, B.S. 1969, Tulane University
 Lawrence William Koblenz, B.A. 1969, Columbia University
 Jerold Jay Kreisman, B.S. 1969, Washington University
 Roy Gerald Kulick, B.A. 1969, New York University
 Paul Bruce Lang, B.A. 1969, New York University
 Gerald Vincent LaSalle, B.A. 1969, Reed College
 Charles Steven Levy, A.B. 1969, Washington University
 Gary Charles Linn, A.B. 1969, Rutgers University
 Benjamin Alan Lipsky, B.A. 1969, Queens College
 Dennis Joseph Lutz, B.S. 1969, Montana State University
 John Joseph Malgieri, B.A. 1969, College of the Holy Cross
 Albert Henry Mangold, B.S. 1969, Union College
 Mark Harris Mazur, B.S. 1969, Brooklyn College
 Mark Gerald Fielding McCormick, B.A. 1969, Yale University
 Dennis Bernard McIntyre, A.B. 1969, Fordham University
 Philip John McWhorter, B.S. 1969, St. Lawrence University
 New York, N.Y.
 Flushing, N.Y.
 Union, N.J.
 Cedarhurst, N.Y.
 Cincinnati, Ohio
 Lincoln, Nebraska
 New York, N.Y.
 Memphis, Tenn.
 Brooklyn, N.Y.
 Bethesda, Md.
 Ardsley, N.Y.
 New York, N.Y.
 Hackensack, N.J.
 Yonkers, N.Y.
 Walton, N.Y.
 Scarsdale, N.Y.
 Brooklyn, N.Y.
 Pound Ridge, N.Y.
 Westbury, N.Y.
 Orinda, Calif.
 Vandalia, Ill.
 Pearl River, N.Y.
 New York, N.Y.
 New York, N.Y.
 New York, N.Y.
 New York, N.Y.
 New York, N.Y.
 Salt Lake City, Utah
 Ottumwa, Iowa
 White Plains, N.Y.
 Ferndale, Wash.
 Niagara Falls, N.Y.
 Columbus, Ohio
 Pelham, N.Y.
 Richmond, Va.
 Brooklyn, N.Y.
 Glen Cove, N.Y.
 Miami Beach, Florida
 Bellerose, N.Y.
 St. Louis, Mo.
 Bronx, N.Y.
 Flushing, N.Y.
 Portland, Ore.
 St. Louis, Mo.
 Union City, N.J.
 New York, N.Y.
 Bozeman, Mont.
 Crestwood, N.Y.
 Albany, N.Y.
 New York, N.Y.
 East Aurora, N.Y.
 Port Washington, N.Y.
 Argyle, N.Y.

* M.D.-Ph.D. candidate.

- Paul Alan Menitoff, B.J.Ed. 1967, Hebrew Teachers College;
 B.A. 1969, Harvard University
 John Albert Michal III, B.A. 1969, Cornell University
 Jay Allan Midwall, B.A. 1969, Queens College
 John Pope Mitchell, B.A. 1969, Cornell University
 Michael John Murphy, A.B. 1969, Northwestern University
 Stuart Bruce Mushlin, B.A. 1969, University of Rochester
 Peter Nieh, B.A. 1969, Cornell University
 Terrence Adams O'Malley, B.A. 1969, Amherst College
 Neil Edward Pauker, A.B. 1969, Princeton University
 Jon Arthur Perlman, B.A. 1969, Lafayette College
 Jeffrey Manning Piehler, B.A. 1969, Williams College
 Vincent Gregory Pons, B.S. 1969, Georgetown University
 Joseph Anthony Putrino, B.S. 1969, St. Peter's College
 John Christopher Quatromoni, B.A. 1969, Fordham University
 Lawrence Tuck Reese, B.A. 1969, New York University
 Brendan Michael Reilly, B.A. 1969, Fordham University
 Philip Cullen Reilly, B.A. 1968, Fordham University
 Walter Kessler Reuben, B.A. 1965, Haverford College
 Stanley Harvey Rosebaum, A.B. 1967, Columbia University;
 A.M. 1969, Harvard University
 Richard Joseph Ryter, B.A. 1969, College of the Holy Cross
 Arthuur Barry Sanders, B.A. 1969, Brooklyn College
 William Michael Scheld, B.S. 1969, Cornell University
 Robert Alan Schultz, A.B. 1969, Hamilton College
 Edward Michael Sessa, B.A. 1969, College of the Holy Cross
 Mark Charles Sivakoff, B.A. 1969, Queens College
 Jechezkiel Jack Skowronski, B.A. 1969, Brandeis University
 Sherman Gordon Sorensen, B.A. 1969, University of Utah
 William Farnham Taylor, B.A. 1969, Cornell University
 JoAnn Theodore, B.A. 1969, Cornell University
 Richard Englund Tosi, B.S. 1969, Trinity College
 Dennis Michael Veitch, B.A. 1969, University of Michigan
 Robert Keith Von Rueden, B.A. 1969, University of Notre Dame
 Franzanne Vreeland, A.B. 1969, Cornell University
 Brian Keith Walker, B.A. 1969, Princeton University
 Nicholas Geoffrey Ward, B.A. 1969, Cornell University
 Jeffrey Stephen Wasser, B.A. 1969, Rutgers University
 Almira Wilson, B.S. 1969, St. Mary's College
 Robert Claringbold Young, B.A. 1969, Williams College
 David Zigelman, B.A. 1969, Yeshiva University
- Dorchester, Mass.
 Ithaca, N.Y.
 Forest Hills, N.Y.
 Ithaca, N.Y.
 Neenah, Wisc.
 Rochester, N.Y.
 Ithaca, N.Y.
 Amherst, Mass.
 Kingston, N.Y.
 Easton, Pa.
 Williamstown, Mass.
 Belleville, N.J.
 Union City, N.J.
 Milton, Mass.
 Flushing, N.Y.
 New York, N.Y.
 New York, N.Y.
 Wynnewood, Pa.
 Brooklyn, N.Y.
 West Hartford, Conn.
 New York, N.Y.
 Ithaca, N.Y.
 Fair Lawn, N.J.
 Bronxville, N.Y.
 Flushing, N.Y.
 Waltham, Mass.
 Salt Lake City, Utah
 Byram, Conn.
 Lake Placid, N.Y.
 Shrewsbury, Mass.
 Western Spring, Ill.
 East Troy, Wisc.
 Schenectady, N.Y.
 University Park, Pa.
 Green Village, N.J.
 Somerville, N.J.
 South Bend, Ind.
 Binghamton, N.Y.
 North Bergman, N.J.

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REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abbey, Albert A.	Medicine	88
Abel, Henriette E.	Medicine	86
Abel, Robert R.	Medicine	86
Adelson, Edward T.	Psychiatry	108
Adler, Jill M.	Microbiology	91
Advocate, Seymour	Medicine	86
Aguinaldo, Rosario	Anesthesiology	82
Albrecht, Alberta M.	Sloan-Kettering (Biology)	128
Alcock, Nancy W.	Sloan-Kettering (Biochemistry)	127
Alexander, Benjamin	Medicine	84
Allen, Fred H.	Pediatrics	101
Alonso, Daniel R.	Pathology	100
Altman, Ina R.	Radiology	112
Amstutz, Harlan	Surgery	114
Anagnostopoulos, Takis	Physiology	105
Anderson, Arthur A., Jr.	Psychiatry	107
Anderson, Arthur F.	Pediatrics (Emeritus)	11
Anderson, Gerald A.	Psychiatry	108
Anderson, Karl	Medicine	88
Anderson, William A.	Medicine	86
Angelo, E. Joanne	Psychiatry	108
Antoville, Anthony A.	Medicine	86
Apgar, Virginia	Pediatrics	103
Arcuri, Joseph	Psychiatry	108
Arditi, Lucian I.	Medicine	86
Argandona, Yanez Mario	Psychiatry	108
Argyros, Diana C.	Medicine	88
Arlen, Myron	Surgery	116
Armistead, George C.	Medicine	86
Armstrong, Donald	Medicine	86
Arnold, William D.	Surgery	114
Aronian, John M.	Surgery	115
Aronson, Jason	Psychiatry	107
Artusio, Joseph F., Jr.	Anesthesiology	81
Artzt, Karen	Anatomy	79
Ascheim, Robert S.	Medicine	88
Ashe, Barbara S.	Pediatrics	102
Ashikari, Hiroyuki	Surgery	116
Askari, Amir	Pharmacology	103
Asnis, Stanley E.	Surgery	115
Atkinson, Sam C.	Medicine	84
Avderith, Judith	Neurology	94
Auerbach, Fran	Microbiology	91
Auerbach, Sumner	Medicine	88
Auld, Peter A. Mcf.	Pediatrics	101
Aversa, John M.	Surgery	115
Avnet, Samuel	Surgery	115
Bachl, Bonita L.	Pathology	100
Baer, Ralph A.	Medicine	88
Baker, Alan	Radiology	112
Baker, Ralph D.	Psychiatry	108
Baker, Thomas	Pharmacology	103
Balagura, Sulamita	Physiology	105
Balas, Leslie	Anesthesiology	81
Balensweig, Howard D.	Surgery	115
Balis, M. Earl	Sloan-Kettering (Biochemistry)	127
Baltaxe, Harold A.	Radiology	112

Balter, Stephen	Radiology	112
Barandes, Martin	Medicine	88
Barber, Hugh R. K.	Obstetrics & Gynecology	95
Barile, Raymond G.	Anesthesiology	81
Barnes, Lloyd T.	Medicine	84
Barnes, William A.	Surgery	113
Barondess, Jeremiah A.	Medicine	84
Barr, David P.	Medicine (Emeritus)	11
Barrett, Beverly J.	Pediatrics	102
Barten, Harvey H.	Psychiatry	107
Barzun, Kathleen A.	Psychiatry	108
Basile, Naef K.	Obstetrics & Gynecology	96
Bass, Richard R.	Pediatrics	102
Basso, Alessandro G.	Surgery	115
Bates, Paul E.	Obstetrics & Gynecology	96
Bauer, Charles H.	Pediatrics	101
Bauer, Goran C. H.	Surgery	113
Bauer, Richard M.	Pediatrics	102
Baumgartner, Leona	Pediatrics; Public Health (Emeritus)	11
Bautista, Angel	Anesthesiology	82
Baxter, James E.	Psychiatry	108
Baylor, Curtis H.	Medicine	86
Beamon, Charles R.	Medicine	88
Bearn, Alexander G.	Medicine	84
Beattie, Edward J.	Surgery	115
Becker, Carl G.	Pathology	100
Becker, David V.	Medicine; Radiology	84; 112
Becker, E. Lovell	Medicine	84
Beckett, Thomas	Psychiatry	101
Behrman, Stanley J.	Surgery	114
Beckoff, Marc	Anatomy	79
Beling, Carl	Obstetrics & Gynecology	95
Bellinger, Creighton	Surgery	115
Belshaw, Bruce	Medicine	88
Bendich, Aaron	Sloan-Kettering (Biochemistry)	127
Beneventi, Francis A.	Surgery	114
Benjamin, Brv.	Medicine	86
Bennett, Dorothea	Anatomy	79
Berenberg, Samuel R.	Pediatrics	101
Berger, David M.	Surgery	116
Bergland, Richard M.	Surgery	114
Berkowitz, Jerome S.	Ophthalmology	98
Berkowitz, Richard L.	Obstetrics & Gynecology	64
Berkowitz, Sharon F.	Pediatrics	96
Bernene, James L.	Medicine	102
Bernstein, James S.	Medicine	88
Berntsen, Carl A.	Medicine	88
Bethea, James S. III	Surgery	118
Bettigole, Richard E.	Medicine	86
Bieder, June L.	Sloan-Kettering (Biology)	128
Bienstock, Harry	Medicine	86
Bikhazi, Kamal J.	Surgery	116
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Binford, Robert T.	Medicine	86
Bippart, Charles H.	Obstetrics & Gynecology	96
Birnbaum, Gary	Neurology	94
Birnbaum, Stanley	Obstetrics & Gynecology	107
Blackman, Sheldon	Psychiatry	107
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Blitz, Marvin B.	Psychiatry	108
Bloch, Daniel A.	Sloan-Kettering (Biomathematics)	125
Bonsnes, Roy W.	Obstetrics & Gynecology; Biochemistry	95; 82
Boutelle, William E. Jr.	Psychiatry	108

Boyse, Edward A.	Sloan-Kettering (Biology)	128
Bowden, Lemuel	Surgery	116
Bowers, William F.	Biochemistry	83
Brachfeld, Norman	Medicine	84
Bragg, David G.	Radiology	112
Brander, Jerome H.	Obstetrics & Gynecology	96
Brannan, Carl D.	Surgery	116
Brasel, JoAnne	Pediatrics	102
Brasfield, Richard D.	Surgery	116
Brayton, Robert G.	Medicine	86
Braunstein, Paul W.	Surgery	114
Bredin, Hugh C.	Surgery	115
Brennan, Robert	Neurology	94
Breslow, Esther	Biochemistry	83
Brethwaite, Samuel H., Jr.	Medicine	88
Brice, Mitchell II	Surgery	115
Brill, Norman	Psychiatry	108
Brilliant, Renee M.	Pediatrics	102
Briscoe, William A.	Medicine	84
Brito, Edilson	Pathology	100
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	95
Brodkey, Mark J.	Surgery	115
Brodman, Keeve	Medicine	86
Brooks, Dana C.	Anatomy	97
Brown, David E.	Psychiatry	108
Brown, George B.	Sloan-Kettering (Biochemistry)	127
Brown, James W.	Psychiatry	108
Brown, John Lyman	Medicine	86
Brown, Stuart I.	Ophthalmology	98
Browne, Michael	Surgery	115
Browne-Mayers, Albert	Psychiatry	107
Brunschwig, Alexander	Surgery (Emeritus)	11
Bruton, William	Surgery	115
Buchanan, J. Robert	Medicine; Acting Dean	84
Buchanan, Mary C.	Pediatrics	102
Buchman, Myron I.	Obstetrics & Gynecology	95
Buckley, Jerald D.	Obstetrics & Gynecology	96
Bull, Geoffrey F.	Biochemistry	83
Bullough, Peter G.	Pathology	100
Burchenal, Joseph H.	Medicine	84
Burnham, Bruce E.	Surgery	115
Burns, Anthony J.	Anesthesiology	82
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Burstein, Charles	Anesthesiology	81
Cabot, Hector M.	Obstetrics & Gynecology	96
Caffery, Jeanie	Medicine	88
Cahan, William G.	Surgery	115
Camarda, Anthony	Surgery	115
Cameron, Donald J.	Medicine	86
Camp, Walter A.	Neurology	94
Campbell, Arthur S.	Psychiatry	108
Campbell, Rolla D., Jr.	Surgery	113
Canale, Virginia C.	Pediatrics	102
Carandang, Celso M.	Surgery	116
Carey, Robert	Medicine	88
Carey, Thomas I.	Surgery	115
Carlson, Arthur S.	Pathology	100
Carlson, Eric T.	Psychiatry	106
Carlson, Robert G.	Surgery	114
Caronna, John J.	Neurology	94
Carpenter, Charles W.	Surgery	114
Carpenter, Walter T.	Pediatrics	102
Carr, Henry A.	Medicine	84

Carruthers, Richard	Neurology	94
Carson, Robert S.	Psychiatry	108
Carver, Susan T.	Medicine	86
Caterinicchio, Benedict S.	Pediatrics	102
Catlin, Daniel	Surgery	116
Cattell, McKeen	Pharmacology (Emeritus)	11
Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	127
Cavallari, John	Radiology	112
Cederquist, Lars L.	Obstetrics & Gynecology; Medicine	96; 88
Cerruli, Remo	Psychiatry	108
Chan, Walter	Pharmacology	103
Charash, Leon J.	Pediatrics	102
Chaves, Aaron D.	Medicine; Public Health	85; 109
Chen, Ching-Ming	Anesthesiology	82
Chen, John S.L.	Anesthesiology	81
Chen, Wei Yu	Obstetrics & Gynecology	96
Cho, Eun-Sook	Pathology	100
Choudhry, Karamat	Surgery	116
Chown, Judith	Medicine	88
Christenson, William N.	Medicine	85
Chu, Florence Chien-Hwa	Radiology	112
Chung, Arthur F.	Obstetrics & Gynecology	96
Church, Edwin H.	Psychiatry	108
Cipollaro, Anthony	Medicine (Emeritus)	11
Cipollaro, Vincent	Medicine	88
Claremont, Hugh E.	Medicine	86
Clark, Donald G. C.	Surgery	116
Clark, Melva A.	Medicine	86
Clarke, Robert L.	Surgery	115
Clarkson, Bayard D.	Medicine	85
Clayson, David M.	Psychiatry	107
Cleeman, James I.	Medicine	88
Clements, Margaret H. S.	Pathology	100
Cleve, Hartwig	Medicine	85
Clifford, George O.	Medicine	85
Cliffon, Eugene E.	Surgery	115
Coats, Edward C.	Surgery	115
Cohen, Eugene J.	Medicine	85
Cohen, Hirsh G.	Sloan-Kettering (Biomathematics)	125
Cohen, Ira B.	Medicine	86
Cohen, Sheldon	Surgery	115
Cole, John T.	Obstetrics & Gynecology	96
Coleman, John W.	Surgery	115
Coleman, Morton	Medicine	88
Coll, Raymond	Neurology	94
Collier, Robert	Medicine	88
Connolly, Charles E.	Pathology	100
Connolly, C. Stephen	Medicine	86
Console, A. Dale	Psychiatry	108
Conway, Herbert	Surgery	113
Cooke, Nora	Biochemistry	83
Coombs, Francis P.	Medicine	86
Cooper, Howard N.	Psychiatry	108
Cooper, Jan	Psychiatry	108
Cooper, William	Surgery (Orthopedics)	113
Copeland, Lois J.	Medicine	88
Cornell, George N.	Surgery	114
Cortese, Armand	Surgery	114
Coscia, Anthony G.	Medicine	88
Covey, Alan H.	Medicine	88
Covington, Eugene	Radiology	112
Cox, Denton S.	Medicine	86
Cozine, Richard A.	Anesthesiology	81

Cramer, Jean Abel	Medicine	86
Craver, Lloyd F.	Medicine (Emeritus)	11
Crosby, Edward B.	Surgery	115
Crotchlow, William P.	Surgery	115
Cummins, F. Mitchell	Radiology	112
Curry, William T.	Surgery	115
Curtis, Gabriel G.	Anesthesiology	81
Curtis, James L.	Psychiatry; Assistant Dean	106
Czerniecki, Alfredo	Surgery	114
Dain, Norman	Psychiatry	108
Dalldorf, Gilbert	Sloan-Kettering (Biology)	128
Daly, Christopher J.	Surgery	115
Danes, Betty S.	Medicine	85
Dangelmayer, Rudolph C.	Surgery	115
D'Angio, Giulio	Radiology	111
Daniels, Farrington, Jr.	Medicine (Dermatology)	84
Daniels, Helen E.	Psychiatry	106
Dann, Margaret	Pediatrics (Emeritus)	11
Dargeon, Harold W. K.	Pediatrics (Emeritus)	11
David, David F.	Biochemistry	83
Davis, E. William	Obstetrics & Gynecology	95
Davis, James N.	Neurology	94
Davis, Marion	Medicine	86
Deal, C. Pinckney	Medicine	88
De Alvarado, Lois	Psychiatry	108
Deans, Robert D.	Surgery	115
Deck, Michael	Radiology	112
Decker, Hannah S.	Psychiatry	108
Deddish, Michael R.	Surgery	115
Deely, William	Pediatrics	102
deFuria, Frank	Medicine	88
De Gara, Paul F.	Pediatrics	101
Degnan, Mark	Pediatrics	102
de Groot, Genevieve	Surgery	114
De Harven, Etienne	Sloan-Kettering (Biology)	128
Deitrick, John E.	Medicine	84
Delaney, John R.	Psychiatry	108
DeLeon, Victor	Anatomy	79
de Llovera, Irene	Ophthalmology	98
De Mayo, Alan P.	Pediatrics	102
Dennen, Edward H.	Obstetrics & Gynecology (Emeritus)	11
De Palo, Angelo J.	Surgery	116
Derman, Richard J.	Obstetrics & Gynecology	96
Deschner, Eleanor	Medicine; Radiology	86; 112
DeSilvey, Dennis L.	Medicine	88
Desser, Edgar G.	Medicine	88
Diacumakos, Elaine G.	Sloan-Kettering (Biology)	128
Diamant, Bernard	Medicine	88
Diamond, Monroe T.	Medicine	86
Diaz, Robert L.	Surgery	114
Dickerman, Robert W.	Microbiology	91
Dickler, Howard B.	Medicine	88
Diehl, Carolyn H.	Medicine	86
Diethelm, Oskar	Psychiatry (Emeritus)	11
Di Gangi, Mary V.	Psychiatry	108
Di Leo, Joseph H.	Pediatrics	102
Dillon, Thomas F.	Obstetrics & Gynecology	95
Dimich, Alexandra	Medicine	88
Dineen, Peter	Surgery	113
Diner, Martin	Psychiatry	108
Dische, M. Renate	Pathology	100
Dobrowolski, Peter E.	Radiology	112
Doherty, John H.	Surgery	114

Dos, Serge J.	Surgery	115
Dougherty, John W.	Medicine	85
Douglas, R. Gordon	Obstetrics & Gynecology (Emeritus)	11
Doumas, Damianos	Radiology	112
Dowell, Duane L.	Pediatrics	102
Dowling, Monroe	Medicine	88
Downs, Lawrence A.	Psychiatry	108
Doyle, Thomas L., Jr.	Psychiatry	108
Draghi, Suzanne C.	Psychiatry	108
Drakontides, Anna	Anatomy	79
Draper, John W.	Surgery (Urology)	113
Dressner, Steven	Surgery	115
Drew, J. Edwin	Surgery	114
Drusin, Louis	Medicine	88
Dufau, Maria	Pediatrics	102
Duley, Wade	Surgery	115
Dunbar, Howard S.	Surgery	113
Dunkell, Samuel V.	Psychiatry	108
Dunlap, Edward A.	Ophthalmology	98
Dunn, Michael W.	Ophthalmology	98
Dunning, Henry S.	Neurology	94
Du Vigneaud, Vincent	Biochemistry (Emeritus)	11
Dworetzky, Murray	Medicine	84
Dwyer, John F.	Obstetrics & Gynecology	96
Dye, Robert E.	Medicine	86
Eaton, Richard G.	Surgery	115
Eckardt, Robert E.	Medicine	86
Eckel, John H.	Surgery	113
Edelman, Martin	Radiology	112
Edelson, Stuart R.	Psychiatry	108
Edwards, Adrian	Medicine	88
Edwards, Dayton J.	Physiology (Emeritus)	11
Egan, George F.	Surgery	113
Ehlers, Kathryn H.	Pediatrics	102
Ehrlich, Alvin N.	Medicine	88
Eichenholtz, Sidney	Surgery	114
Eisenmenger, William	Medicine	85
Ejrup, Borje E. V.	Medicine	85
El-Domeiri, Ali A.	Surgery	116
Elliott, Douglas R.	Psychiatry	108
Elliott, Judith	Pediatrics	102
Ellis, John T.	Pathology	99
Ellis, Robert J.	Surgery	115
Elson, Charles O. II	Medicine	88
Elstein, William	Psychiatry	108
Eltanol, Julieto	Anesthesiology	82
Emery, Edward	Neurology	94
Engle, Mary Allen	Pediatrics	101
Engle, Ralph L., Jr.	Medicine	84
Ennis, Francis A.	Medicine	88
Epp, Edward R.	Sloan-Kettering (Biophysics)	129
Epstein, Nathan	Pediatrics	101
Epstein, Simon J.	Psychiatry	108
Erickson, Robert	Medicine	88
Erlanger, Herbert L.	Anesthesiology	81
Erle, Henry R.	Medicine	86
Errico, Michael J.	Surgery	115
Easkof, Ernest R.	Medicine	88
Eskes, Philip W. H.	Pediatrics	102
Eskesen, Ralph A.	Medicine	86
Essner, Edward S.	Sloan-Kettering (Biology)	128
Ettinger, Edwin	Medicine	88
Evans, John A.	Radiology	111

Evans, Richard G.	Radiology (Physics)	112
Evans, S. R., Jr.	Surgery	116
Exelby, W. Philip E.	Surgery	116
Eyster, M. Elaine	Medicine	86
Fahey, Thomas	Medicine	86
Failmezger, Theodore	Medicine	88
Falk, George A.	Medicine	88
Farcon, Erlina Lobrin	Anesthesiology	82
Farina, James	Obstetrics & Gynecology	96
Farr, Hollon	Surgery	116
Farrell, Frank W.	Otorhinolaryngology	99
Farrow, Joseph H.	Surgery	115
Feder, Aaron	Medicine	84
Feingold, Alan O.	Medicine	88
Feldman, John E.	Medicine	88
Fell, Colin	Physiology	105
Ferguson, G. Renee	Psychiatry	108
Ferlic, Randolph M.	Surgery	114
Fillmore, Sidney	Medicine	88
Finkbeiner, John A.	Medicine	86
Finkle, Theodore H.	Psychiatry	108
Finlayson, Niall D. C.	Medicine	88
Fischer, Henry J., Jr.	Radiology	112
Fisher, Bernard	Psychiatry	106
Fishman, Louis	Medicine	88
Fissekis, John D.	Sloan-Kettering (Biochemistry)	127
Flach, Frederic F.	Psychiatry	106
Flaherty, Lorraine	Anatomy	79
Fleetwood, M. Freile	Psychiatry	108
Flehinger, Betty J.	Sloan-Kettering (Biomathematics)	125
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Fleming, Richard	Radiology	112
Flynn, John T.	Medicine	86
Fogh, Jorgen E.	Sloan-Kettering (Biology)	128
Foley, William T.	Medicine	85
Folstein, Marshall F.	Psychiatry	108
Foote, Frank W., Jr.	Sloan-Kettering (Biology)	128
Foraste, Roland J.	Psychiatry	108
Forkner, Claude E.	Medicine (Emeritus)	11
Forkner, Claude E., Jr.	Medicine	86
Fortner, Joseph	Surgery	115
Fountain, Gerard	Psychiatry	107
Fox, Jack J.	Sloan-Kettering (Biochemistry)	127
Fox, John I.	Anesthesiology	81
Fracchia, Alfred A.	Surgery	116
Frاند, Mira	Pediatrics	102
Franklin, John E.	Pediatrics	101
Franzblau, Charles D.	Pediatrics	103
Fraschino, Joseph A., Jr.	Medicine	88
Fratantoni, Joseph C.	Medicine	88
Frazell, Edgar L.	Surgery	116
Fredland, Mio	Psychiatry	108
Freedman, Walter	Obstetrics & Gynecology	95
Freiberger, Robert H.	Radiology	112
Freiman, Alvin H.	Medicine	85
Freyberg, Richard H.	Medicine (Emeritus)	11
Freydberg, Nicholas	Psychiatry	107
Fried, Jerrold	Sloan-Kettering (Biophysics)	129
Friedell, Beverly R.	Medicine	88
Friedman, Lionel O.	Psychiatry	107
Friess, Constance	Medicine	85
Fuchs, Anna-Riitta	Obstetrics & Gynecology	96
Fuchs, Fritz F.	Obstetrics & Gynecology	95

Fuld, Gilbert L.	Pediatrics	102
Gabel, Milton	Surgery	115
Gadow, Enrique C.	Obstetrics & Gynecology	96
Gandy, Hortense	Obstetrics & Gynecology	95
Gans, Henry	Surgery	113
Gardner, G. Gail	Pediatrics	102
Garnder, Horace T.	Medicine	86
Gardy, Martin	Medicine	86
Gareen, Diane B.	Pediatrics	102
Garren, Ronald B.	Medicine	88
Gass, Jerald D.	Biochemistry	83
Gause, Ralph W.	Obstetrics & Gynecology	95
Gee, Timothy	Medicine	88
Geffner, David L.	Medicine	88
Geiser, Richard	Ophthalmology	98
Gelbard, Alan S.	Sloan-Kettering (Biophysics)	129
Geller, Stephen R.	Otorhinolaryngology	99
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Genvert, Harold	Surgery	114
German, James L. III	Anatomy; Pediatrics	79; 101
Gerold, Frank R.	Surgery	116
Gershon, Michael D.	Anatomy	79
Geyer-Duszynska, Irene	Anatomy	79
Ghelman, Bernard	Radiology	112
Giardina, Andrea C. V.	Pediatrics	103
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Gibbs, James G., Jr.	Psychiatry	108
Gilder, Helena	Biochemistry; Surgery	83; 114
Gilladoga, Angela C.	Pediatrics	103
Gillette, Ronald W.	Surgery	115
Giner-Sorolla, Alfredo	Sloan-Kettering (Biochemistry)	127
Ginsberg, Theodore M.	Pediatrics	102
Giustra, Peter	Radiology	112
Given, William P.	Obstetrics & Gynecology	95
Glaser, Joseph P.	Medicine	88
Glassberg, Lawrence	Medicine	88
Glenn, Frank	Surgery (Emeritus)	11
Globus, David L.	Medicine	86
Gluck, David	Medicine	88
Glynn, Martin J.	Pediatrics	101
Gmeiner, Richard	Medicine	88
Golbey, Robert B.	Medicine	86
Gold, Harry	Pharmacology (Emeritus)	11
Goldberg, Doris K.	Pediatrics	102
Goldberg, Ellen H.	Anatomy	79
Goldberg, Henry P.	Pediatrics	101
Goldberg, Mildred	Medicine	89
Goldberg, Richard I.	Surgery	116
Golden, David	Medicine	88
Golden, Margery	Medicine	88
Goldin, Howard	Medicine	86
Goldsmith, Edward I.	Surgery	114
Goldsmith, Harry S.	Surgery	116
Goldstein, Jack	Biochemistry	82
Goldstein, Michael	Medicine	88
Goldstone, Robert A.	Surgery	115
Goldstone, Sanford	Psychiatry	106
Gomatos, Peter J.	Sloan-Kettering (Biology)	128
Goodner, John T.	Surgery	116
Goodsell, Charles H.	Medicine	107
Goodyear, Stephen	Psychiatry	88
Goor, Daniel A.	Surgery	115
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Gordon, David W.	Medicine	88
Gorham, George W.	Medicine	86
Goss, Mary E. W.	Medicine	85
Gottfried, Eugene L.	Medicine	85
Gould, Richard B.	Psychiatry	108
Goulet, Anita H.	Anesthesiology	81
Gouliau, Dicran, Jr.	Surgery	114
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Instructors, Assistant, etc.	710
Total	1,389

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